# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

(Mark one)			
☑ QUARTERLY REPORT PUR	RSUANT TO SECTION 13 or 15	(d) OF THE SECURITIES EXCHANGE A	ACT OF 1934
		For the quarterly period ended March 3	31, 2019
		or	
☐ TRANSITION REPORT PUR	SUANT TO SECTION 13 or 15	(d) OF THE SECURITIES EXCHANGE A	CT OF 1934
		For the transition period fromto	)
		Commission File Number 000-099	992
	KI	LA-Tencor Corpor	<del></del> ration
		Exact name of registrant as specified in its	charter)
1	Delaware		04-2564110
,	other jurisdiction of tion or organization)		(I.R.S. Employer Identification No.)
<b>6.</b>	Drive, Milpitas, California incipal Executive Offices)		95035 (Zip Code)
		(408) 875-3000 (Registrant's telephone number, including a	area code)
•		as required to be filed by Section 13 or 15(d) of the speed subject to such filing requirements for	f the Securities Exchange Act of 1934 during the preceding 12 months (or for such r the past 90 days. Yes ⊠ No □
		nically every Interactive Data File required to be registrant was required to submit such files).	be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this Yes ⊠ No □
	=	filer, an accelerated filer, a non-accelerated file and "emerging growth company" in Rule 12b-2	er, a smaller reporting company or an emerging growth company. See the definitions 2 of the Exchange Act.
Large accelerated filer ⊠			Accelerated filer □
Non-accelerated filer □	(Do not check if a	smaller reporting company)	Smaller reporting company □
			Emerging growth company □
If an emerging growth company, in provided pursuant to Section 13(a) of the		trant has elected not to use the extended transit	tion period for complying with any new or revised financial accounting standards
Indicate by check mark whether th	ne registrant is a shell company (a	s defined in Rule 12b-2 of the Exchange Act).	Yes□ No ⊠
Securities registered pursuant to Se	ection 12(b) of the Act:		
Title of each	h class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.001	par value per share	KLAC	The Nasdaq Stock Market, LLC
		KLAC nt's Common Stock, \$0.001 par value, outstand	The Nasdaq Global Select Market

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# PART I. FINANCIAL INFORMATION

# ITEM 1. FINANCIAL STATEMENTS

# KLA-TENCOR CORPORATION Condensed Consolidated Balance Sheets (Unaudited)

(In thousands)	March 31, 2019	June 30, 2018	
ASSETS			
Current assets:			
Cash and cash equivalents	\$ 1,092,163	\$ 1,404,382	
Marketable securities	805,105	1,475,936	
Accounts receivable, net	958,021	651,678	
Inventories	1,317,260	931,845	
Other current assets	270,079	85,159	
Total current assets	4,442,628	4,549,000	
Land, property and equipment, net	411,852	286,306	
Goodwill	2,172,902	354,698	
Deferred income taxes	205,820	193,200	
Purchased intangible assets, net	1,694,313	19,333	
Other non-current assets	260,090	236,082	
Total assets	\$ 9,187,605	\$ 5,638,619	
LIABILITIES, NON-CONTROLLING INTEREST AND STOCKHOLDERS' EQUITY			
Current liabilities:			
Accounts payable	\$ 206,248	\$ 169,354	
Deferred system revenue	228,745	_	
Deferred service revenue	182,119	69,255	
Deferred system profit	_	279,581	
Current portion of long-term debt	249,997	_	
Other current liabilities	833,747	696,080	
Total current liabilities	1,700,856	1,214,270	
Non-current liabilities:			
Long-term debt	3,172,649	2,237,402	
Deferred tax liability	762,303	1,197	
Deferred service revenue	90,610	71,997	
Other non-current liabilities	 575,599	493,242	
Total liabilities	6,302,017	4,018,108	
Commitments and contingencies (Note 13 and Note 14)			
Stockholders' equity:			
Common stock and capital in excess of par value	1,989,914	617,999	
Retained earnings	928,086	1,056,445	
Accumulated other comprehensive income (loss)	 (68,907)	 (53,933)	
Total KLA-Tencor stockholders' equity	2,849,093	1,620,511	
Non-controlling interest in consolidated subsidiaries	36,495		
Total stockholders' equity	2,885,588	1,620,511	
Total liabilities and stockholders' equity	\$ 9,187,605	\$ 5,638,619	

See accompanying notes to condensed consolidated financial statements (unaudited).

# KLA-TENCOR CORPORATION Condensed Consolidated Statements of Operations (Unaudited)

		Three months ended				Nine months ended					
		March 31,				Marc	ch 31,				
(In thousands, except per share amounts)		2019	2018			2019		2018			
Revenues:						_					
Product	\$	793,224	\$	797,797	\$	2,474,652	\$	2,320,171			
Service		304,087		223,497		835,817		646,526			
Total revenues		1,097,311		1,021,294		3,310,469		2,966,697			
Costs and expenses:											
Costs of revenues		486,945		368,356		1,276,592		1,068,475			
Research and development		184,887		153,239		504,320		456,626			
Selling, general and administrative		182,184		113,237		409,084		325,934			
Interest expense		31,187		28,119		84,087		86,067			
Other expense (income), net		(9,282)		(7,640)		(28,535)		(19,847)			
Income before income taxes		221,390		365,983		1,064,921		1,049,442			
Provision for income taxes		28,745		59,102		107,232		595,944			
Net income		192,645		306,881		957,689		453,498			
Less: Net loss attributable to non-controlling interest		(83)		_		(83)		_			
Net income attributable to KLA-Tencor	\$	192,728	\$	306,881	\$	957,772	\$	453,498			
Net income per share attributable to KLA-Tencor											
Basic	\$	1.23	\$	1.96	\$	6.20	\$	2.90			
Diluted	\$	1.23	\$	1.95	\$	6.17	\$	2.88			
Weighted-average number of shares:											
Basic		156,349		156,221		154,561		156,547			
Diluted		157,182		157,201		155,310		157,539			
				•							

See accompanying notes to condensed consolidated financial statements (unaudited).

# KLA-TENCOR CORPORATION Condensed Consolidated Statements of Comprehensive Income (Unaudited)

	Three months ended					Nine months ended				
		Mar	ch 31,		March 31,					
(In thousands)		2019		2018		2019	2018			
Net income	\$	192,645	\$	306,881	\$	957,689	\$	453,498		
Other comprehensive income (loss):										
Currency translation adjustments:										
Change in currency translation adjustments		(1,031)		4,238		(5,104)		10,617		
Change in income tax benefit or expense		442		(667)		442		(3,006)		
Net change related to currency translation adjustments		(589)		3,571		(4,662)		7,611		
Cash flow hedges:										
Change in net unrealized gains or losses		(1,379)		(581)		(6,567)		560		
Reclassification adjustments for net gains or losses included in net income		(946)		(694)		(3,719)		(3,775)		
Change in income tax benefit or expense		461		369		1,641		1,045		
Net change related to cash flow hedges		(1,864)		(906)		(8,645)		(2,170)		
Net change related to unrecognized losses and transition obligations in connection with defined benefit plans		438		(28)		993		(121)		
Available-for-sale securities:										
Change in net unrealized gains or losses		3,922		(5,723)		8,681		(10,919)		
Reclassification adjustments for net gains or losses included in net income		313		(2)		1,263		61		
Change in income tax benefit or expense		(680)		1,333		(1,759)		2,584		
Net change related to available-for-sale securities		3,555		(4,392)		8,185		(8,274)		
Other comprehensive income (loss)		1,540		(1,755)		(4,129)		(2,954)		
Comprehensive loss attributable to non-controlling interest		(83)		_		(83)		_		
Total comprehensive income attributable to KLA-Tencor	\$	194,268	\$	305,126	\$	953,643	\$	450,544		

See accompanying notes to condensed consolidated financial statements (unaudited).

# KLA-TENCOR CORPORATION

# Condensed Consolidated Statements of Stockholders' Equity (Unaudited)

	Capital in		oon Stock and al in Excess of ar Value		Retained Earnings (Accumulated		Accumulated Other Comprehensive	Total KLA-Tencor Stockholders'		Non- controlling	Tota	al Stockholders'
(In thousands, except per share amounts)	Shares		Amount		Deficit)		Income (Loss)	Equity		interest	100	Equity
Balance as of June 30, 2018	156,048	\$	617,999	\$	1,056,445	\$	(53,933)	\$	1,620,511	\$ _	\$	1,620,511
Adoption of ASC 606	_		_		(21,215)		75		(21,140)	_		(21,140)
Reclassification of stranded tax effects			_		10,920		(10,920)		_	_		_
Balance as of July 1, 2018	156,048		617,999		1,046,150		(64,778)		1,599,371	_		1,599,371
Net income	_		_		395,944		_		395,944	_		395,944
Other comprehensive income	_		_		_		8,611		8,611	_		8,611
Net issuance under employee stock plans	332		(26,961)		_		_		(26,961)	_		(26,961)
Repurchase of common stock	(2,781)		(11,010)		(296,777)		_		(307,787)	_		(307,787)
Cash dividends (\$0.75 per share) and dividend equivalents declared	_		_		(117,947)		_		(117,947)	_		(117,947)
Stock-based compensation expense	_		16,138		_		_		16,138	_		16,138
Balance as of September 30, 2018	153,599		596,166		1,027,370		(56,167)		1,567,369	_		1,567,369
Net income	_		_		369,100		_		369,100	_		369,100
Other comprehensive income	_		_		_		(14,280)		(14,280)			(14,280)
Net issuance under employee stock plans	321		17,323		_		_		17,323	_		17,323
Repurchase of common stock	(2,556)		(9,919)		(232,482)		_		(242,401)	_		(242,401)
Cash dividends (\$0.75 per share) and dividend equivalents declared	_		_		(115,184)		_		(115,184)	_		(115,184)
Stock-based compensation expense	_		15,695		_		_		15,695	_		15,695
Balance as of December 31, 2018	151,364		619,265		1,048,804		(70,447)		1,597,622	_		1,597,622
Net income attributable to KLA-Tencor	_		_		192,728		_		192,728	_		192,728
Net loss attributable to non-controlling interest	_		_		_		_		_	(83)		(83)
Other comprehensive income	_		_		_		1,540		1,540	_		1,540
Assumption of stock-based compensation plan awards in connection with the acquisition of Orbotech	_		13,281		_		_		13,281	_		13,281
Common stock issued upon the acquisition of Orbotech	12,292		1,330,786		_		_		1,330,786	_		1,330,786
Net issuance under employee stock plans	26		(371)		_		_		(371)	_		(371)
Repurchase of common stock	(1,770)		(7,240)		(198,777)		_		(206,017)	_		(206,017)
Cash dividends (\$0.75 per share) and dividend equivalents declared	_		_		(114,669)		_		(114,669)	_		(114,669)
Non-controlling interest in connection with the acquisition of Orbotech	_		_		_		_		_	36,578		36,578
Stock-based compensation expense			34,193						34,193	_		34,193
Balance as of March 31, 2019	161,912	\$	1,989,914	\$	928,086	\$	(68,907)	\$	2,849,093	\$ 36,495	\$	2,885,588

 $See\ accompanying\ notes\ to\ condensed\ consolidated\ financial\ statements\ (unaudited).$ 

# KLA-TENCOR CORPORATION

# Condensed Consolidated Statements of Stockholders' Equity

(Unaudited)

	Common Capital i Par			Retained Earnings	Accumulated Other Comprehensive	Total KLA-Tencor Stockholders'
(In thousands, except per share amounts)	Shares		Amount	(Accumulated Deficit)	Income (Loss)	Equity
Balance as of June 30, 2017	156,840	\$	529,283	\$ 848,457	\$ (51,323)	\$ 1,326,417
Net income	_		_	280,936	_	280,936
Other comprehensive income	_		_	_	542	542
Net issuance under employee stock plans	334		(23,628)	_	_	(23,628)
Repurchase of common stock	(433)		(1,463)	(39,312)	_	(40,775)
Cash dividends (\$0.59 per share) and dividend equivalents declared	_		_	(93,567)	_	(93,567)
Stock-based compensation expense			14,031			14,031
Balance as of September 30, 2017	156,741		518,223	996,514	(50,781)	1,463,956
Net loss	_		_	(134,319)	_	(134,319)
Other comprehensive income	_		_	_	(1,741)	(1,741)
Net issuance under employee stock plans	309		18,012	_	_	18,012
Repurchase of common stock	(388)		(1,283)	(39,585)	_	(40,868)
Cash dividends (\$0.59 per share) and dividend equivalents declared	_		_	(93,154)	_	(93,154)
Stock-based compensation expense	_		13,739	_	_	13,739
Balance as of December 31, 2017	156,662		548,691	729,456	(52,522)	1,225,625
Net income	_		_	306,881	_	306,881
Other comprehensive income	_		_	_	(1,755)	(1,755)
Net issuance under employee stock plans	6		(437)	_	_	(437)
Repurchase of common stock	(796)		(2,787)	(80,648)	_	(83,435)
Cash dividends (\$0.59 per share) and dividend equivalents declared	_		_	(92,946)	_	(92,946)
Stock-based compensation expense	_		16,210	_	_	16,210
Balance as of March 31, 2018	155,872	\$	561,677	\$ 862,743	\$ (54,277)	\$ 1,370,143

 $See\ accompanying\ notes\ to\ condensed\ consolidated\ financial\ statements\ (unaudited).$ 

# KLA-TENCOR CORPORATION Condensed Consolidated Statements of Cash Flows

(Unaudited)

	Nine months ended March 31,				
(In thousands)	 2019		2018		
Cash flows from operating activities:					
Net income	\$ 957,689	\$	453,498		
Adjustments to reconcile net income to net cash provided by operating activities:					
Depreciation and amortization	105,338		47,695		
Loss (gains) on unrealized foreign exchange and other	4,863		(1,221)		
Stock-based compensation expense	66,026		43,980		
Changes in assets and liabilities, net of assets acquired and liabilities assumed in business acquisitions:					
Accounts receivable	(92,586)		(78,128)		
Inventories	(72,740)		(104,921)		
Other assets	15,057		16,276		
Accounts payable	(17,795)		21,375		
Deferred system revenue	(67,428)		_		
Deferred service revenue	(16,485)		_		
Deferred system profit	_		79,147		
Other liabilities	(54,768)		377,906		
Net cash provided by operating activities	 827.171		855,607		
Cash flows from investing activities:	 827,171		855,007		
Acquisition of non-marketable securities	(620)		(2.277)		
1	(630)		(3,377)		
Business acquisitions, net of cash acquired	(1,818,283)		(5,490)		
Capital expenditures	(74,652)		(44,119)		
Purchases of available-for-sale securities	(2,686)		(438,673)		
Proceeds from sale of available-for-sale securities	239,528		165,030		
Proceeds from maturity of available-for-sale securities	443,107		489,569		
Purchases of trading securities	(62,428)		(65,160)		
Proceeds from sale of trading securities	 64,623		67,063		
Net cash (used in) provided by investing activities	 (1,211,421)		164,843		
Cash flows from financing activities:					
Proceeds from issuance of debt, net of issuance costs	1,186,263		_		
Proceeds from revolving credit facility, net of debt issuance costs	900,000		248,693		
Repayment of debt	(902,474)		(721,250)		
Common stock repurchases	(750,216)		(165,078)		
Payment of dividends to stockholders	(350,900)		(285,030)		
Issuance of common stock	20,556		20,571		
Tax withholding payments related to vested and released restricted stock units	(30,575)		(26,623		
Payment of contingent consideration payable	(513)				
Net cash provided by (used in) financing activities	 72,141	_	(928,717)		
Effect of exchange rate changes on cash and cash equivalents	 (110)		10,898		
Net (decrease) increase in cash and cash equivalents	 (312,219)		102,631		
Cash and cash equivalents at beginning of period	1,404,382				
		Φ.	1,153,051		
Cash and cash equivalents at end of period	\$ 1,092,163	\$	1,255,682		
Supplemental cash flow disclosures:					
Income taxes paid	\$ 164,701	\$	221,797		
Interest paid	\$ 55,529	\$	61,028		
Non-cash activities:					
Issuance of common stock for the acquisition of Orbotech Ltd financing activities	\$ 1,330,786	\$	_		
Contingent consideration payable - financing activities	\$ 6,740	\$	_		
Dividends payable - financing activities	\$ 6,494	\$	8,408		
Unsettled common stock repurchase - financing activities	\$ 5,988	\$	_		
Accrued debt issuance costs - financing activities	\$ 2,530	\$	_		
Accrued purchases of land, property and equipment - investing activities	\$ 6,370	\$	9,728		

# KLA-TENCOR CORPORATION Notes to Condensed Consolidated Financial Statements

(Unaudited)

# NOTE 1 – BASIS OF PRESENTATION

Basis of Presentation. For purposes of this report, "KLA," "KLA-Tencor," the "Company," "we," "our," "us," or similar references mean KLA-Tencor Corporation, and its majority-owned subsidiaries unless the context requires otherwise. The condensed consolidated financial statements have been prepared by us pursuant to the rules and regulations of the U.S. Securities and Exchange Commission ("SEC"). Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America have been condensed or omitted pursuant to such rules and regulations.

In the opinion of management, the unaudited interim financial statements reflect all adjustments (consisting only of normal, recurring adjustments) necessary for a fair statement of the financial position, results of operations, comprehensive income, stockholders' equity and cash flows for the periods indicated. These financial statements and notes, however, should be read in conjunction with Item 8, "Financial Statements and Supplementary Data" included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018, filed with the SEC on August 6, 2018.

The condensed consolidated financial statements include the accounts of KLA and its majority-owned subsidiaries. All significant intercompany balances and transactions have been eliminated.

The results of operations for the three and nine months ended March 31, 2019 are not necessarily indicative of the results that may be expected for any other interim period or for the full fiscal year ending June 30, 2019.

Certain reclassifications have been made to the prior year's Condensed Consolidated Financial Statements to conform to the current year presentation. The reclassifications did not have material effects on the prior year's Condensed Consolidated Balance Sheets, Statements of Operations, Comprehensive Income and Cash Flows.

Acquisition of Orbotech, Ltd. On February 20, 2019 (the "Closing Date" or "Acquisition Date"), we completed the acquisition of Orbotech, Ltd. ("Orbotech") for \$38.86 in cash and 0.25 of a share of our common stock in exchange for each ordinary share of Orbotech for a total consideration of 3.26 billion. The acquisition of Orbotech is referred to as the "Orbotech Acquisition". The Orbotech Acquisition was accounted for by applying the acquisition method of accounting for business combinations. The unaudited condensed consolidated financial statements in this report include the financial results of Orbotech prospectively from the Acquisition Date. For additional details, refer to Note 6 "Business Combinations."

Management Estimates. The preparation of the condensed consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions in applying our accounting policies that affect the reported amounts of assets and liabilities (and related disclosure of contingent assets and liabilities) at the date of the condensed consolidated financial statements and the reported amounts of revenues and expenses during the reporting periods. Actual results could differ from those estimates.

Comparability. Effective on the first day of fiscal 2019, we adopted Accounting Standards Update 2014-09, Revenue from Contracts with Customers ("ASC 606"). Prior periods were not retrospectively restated, and accordingly, the consolidated balance sheet as of June 30, 2018, and the condensed consolidated statements of operations for the three and nine months ended March 31, 2018 were prepared using accounting standards that were different than those in effect for the three and nine months ended March 31, 2019.

# Recent Accounting Pronouncements.

# Recently Adopted

In May 2014, the Financial Accounting Standards Board ("FASB") issued ASC 606, which supersedes the guidance in ASC 605, Revenue Recognition ("ASC 605"). Under ASC 606, revenue is recognized when a customer obtains control of promised goods or services in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. In addition, ASC 606 requires enhanced disclosures, including disclosure of the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. We adopted the ASC 606 as of July 1, 2018 in our first quarter of our fiscal year ending June 30, 2019, using the modified retrospective transition approach. For additional detail, refer to Note 2 "Revenue."

In January 2016, the FASB issued an accounting standard update that changes the accounting for financial instruments primarily related to equity investments (other than those accounted for under the equity method of accounting or those that result in consolidation of the investee), financial liabilities under the fair value option, and the presentation and disclosure requirements for financial instruments. We adopted this update beginning in the first quarter of our fiscal year ending June 30, 2019 on a prospective basis and the adoption had no material impact on our condensed consolidated financial statements.

In August 2016, the FASB issued an accounting standard update intended to clarify how certain cash receipts and cash payments are presented and classified in the statement of cash flows. We adopted this update beginning in the first quarter of our fiscal year ending June 30, 2019 on a retrospective basis and the adoption had no material impact on our condensed consolidated financial statements.

In October 2016, the FASB issued an accounting standard update to recognize the income tax consequences of intra-entity transfers of assets other than inventory when they occur. This eliminates the exception to postpone recognition until the asset has been sold to an outside party. We adopted this update beginning in the first quarter of our fiscal year ending June 30, 2019 on a modified retrospective basis and the adoption had no material impact on our condensed consolidated financial statements.

In January 2017, the FASB issued an accounting standard on clarifying the definition of a business, with the objective of adding guidance to assist entities with evaluating whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. We adopted this update beginning in the first quarter of our fiscal year ending June 30, 2019 on a prospective basis and the adoption had no material impact on our condensed consolidated financial statements.

In January 2017, the FASB issued an accounting standard update to simplify the subsequent measurement of goodwill by removing the second step of the two-step impairment test, which requires an entity to determine the fair value of assets and liabilities similar to what is required in a purchase price allocation. Under the update, goodwill impairment will be calculated as the amount by which a reporting unit's carrying value exceeds our fair value. We early adopted this update in the first quarter of our fiscal year ending June 30, 2019 on a prospective basis and the adoption had no material impact on our condensed consolidated financial statements.

In March 2017, the FASB issued an accounting standard update that changes the statements of operations classification of net periodic benefit cost related to defined benefit pension and/or other post-retirement benefit plans. Under the update, employers will present the service cost component of net periodic benefit cost in the same statements of operations line item(s) as other employee compensation costs arising from services rendered during the period. Only the service cost component will be eligible for capitalization in assets. Employers will present the other components of the net periodic benefit costs separately from the line item(s) that includes the service cost and outside of any subtotal of operating income, if one is presented. We adopted this update beginning in the first quarter of our fiscal year ending June 30, 2019 on a retrospective basis and the adoption had no material impact on our condensed consolidated financial statements.

In May 2017, the FASB issued an accounting standard update regarding stock compensation that provides guidance about which changes to the terms and conditions of a share-based payment award require an entity to apply modification accounting in order to reduce diversity in practice and reduce complexity. We adopted this update beginning in the first quarter of our fiscal year ending June 30, 2019 on a prospective basis and the adoption had no material impact on our condensed consolidated financial statements.

In August 2017, the FASB issued an accounting standard update to hedge accounting to better align risk management activities by refining financial and non-financial hedging strategy eligibilities. This update also amends the presentation and disclosure requirements to increase transparency to better understand an entity's risk exposures and how hedging strategies are used to manage those exposures. We early adopted this update in the second quarter of our fiscal year ending June 30, 2019 under the modified retrospective approach. The cumulative effect adjustment for the elimination of the ineffectiveness was not material to our condensed consolidated financial statements. The presentation and disclosure have been amended on a prospective basis, as required by this update.

In February 2018, the FASB issued an accounting standard update that provides an option to reclassify disproportional tax effects and other income tax effects ("stranded tax effects") caused by the Tax Cuts and Jobs Act ("the Act") from accumulated other comprehensive income ("AOCI") to retained earnings. We early adopted this update in the first quarter of our fiscal year ending June 30, 2019 and applied this update in the period of adoption. As a result of the adoption, we made a reclassification from AOCI to beginning retained earnings of approximately \$10.9 million related to the stranded tax effects.

# **Updates Not Yet Effective**

In February 2016, the FASB issued an accounting standard update which amends the existing accounting standards for leases. Consistent with current guidance, the recognition, measurement, and presentation of expenses and cash flows arising from a lease by a lessee primarily will depend on our classification. Under the new guidance, a lessee will be required to recognize assets and liabilities for all leases with lease terms of more than 12 months using a modified retrospective transition method. In July 2018, the FASB issued an amendment to the standard which provides us an option to apply the practical expedient allowed in the standard retrospectively with the cumulative effect recognized as of the date of adoption. The update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2020. Early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our condensed consolidated financial statements.

In June 2016, the FASB issued an accounting standard update that changes the accounting for recognizing impairments of financial assets. Under the update, credit losses for certain types of financial instruments will be estimated based on expected losses. The update also modifies the impairment models for available-for-sale debt securities and for purchased financial assets with credit deterioration since their origination. The update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2021, with early adoption permitted starting in the first quarter of fiscal year ending June 30, 2020. We are currently evaluating the impact of this accounting standard update on our condensed consolidated financial statements.

In August 2018, the FASB issued an accounting standard update which modifies the existing accounting standards for fair value measurement disclosure. This update eliminates the disclosure of the amount of and reasons for transfers between level 1 and level 2 of the fair value hierarchy, and the policy for timing of transfers between levels. This standard update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2021, and early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our condensed consolidated financial statements.

In August 2018, the FASB issued an accounting standard update to amend the disclosure requirements related to defined benefit pension and other post-retirement plans. Some of the changes include adding a disclosure requirement for significant gains and losses related to changes in the benefit obligation for the period and removing the amounts in accumulated other comprehensive income expected to be recognized as components of net periodic benefit cost over the next fiscal year. This standard update is effective for us for the fiscal year ending June 30, 2021, and early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our condensed consolidated financial statements.

In August 2018, the FASB issued an accounting standard update to align the requirements for capitalizing implementation costs incurred in a cloud computing arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. The guidance clarifies which costs should be capitalized including the cost to acquire the license and the related implementation costs. This standard update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2021, with an option to be adopted either prospectively or retrospectively. Early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our condensed consolidated financial statements.

Significant Accounting Policies. We updated our accounting policies for Revenue Recognition, Business Combinations, Global Intangible Low-Taxed Income ("GILTI"), and Derivative Financial Instruments. There have been no other material changes to our significant accounting policies in Note 1 "Description of Business and Summary of Significant Accounting Policies," of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

Revenue Recognition. We primarily derive revenue from the sale of process control and yield management solutions for the semiconductor and related nanoelectronics industries, maintenance and support of all these products, installation and training services and the sale of spare parts. Our solutions provide a comprehensive portfolio of inspection, metrology and data analytics products, which are accompanied by a flexible portfolio of services to enable our customers to maintain the performance and productivity of the solutions purchased. The acquisition of Orbotech enabled us to broaden our portfolio to include the yield enhancement and production solutions used by manufacturers of printed circuit boards, flat panel displays, advanced packaging, micro-electro-mechanical systems and other electronic components.

Our solutions are generally not sold with a right of return, nor have we experienced significant returns from or refunds to our customers.

We account for a contract with a customer when there is approval and commitment from both parties, the rights of the parties are identified, payment terms are identified, the contract has commercial substance and collectibility of consideration is probable.

Our revenues are measured based on consideration stipulated in the arrangement with each customer, net of any sales incentives and amounts collected on behalf of third parties, such as sales taxes. The revenues are recognized as separate performance obligations that are satisfied by transferring control of the product or service to the customer.

Our arrangements with our customers include various combinations of products and services, which are generally capable of being distinct and accounted for as separate performance obligations. A product or service is considered distinct if it is separately identifiable from other deliverables in the arrangement and if a customer can benefit from it on its own or with other resources that are readily available to the customer.

The transaction consideration, including any sales incentives, is allocated between separate performance obligations of an arrangement based on the stand-alone selling prices ("SSP") for each distinct product or service. Management considers a variety of factors to determine the SSP, such as, historical standalone sales of products and services, discounting strategies and other observable data.

From time to time, our contracts are modified to account for additional, or to change existing, performance obligations. Our contract modifications are generally accounted for prospectively.

Product revenue

We recognize revenue from product sales at a point in time when we have satisfied our performance obligation by transferring control of the product to the customer. We use judgment to evaluate whether the control has transferred by considering several indicators, including:

- whether we have a present right to payment;
- the customer has legal
  - title;
- the customer has physical
  - possession;
- the customer has significant risk and rewards of ownership;
   and
- the customer has accepted the product, or whether customer acceptance is considered a formality based on history of acceptance of similar products (for example, when the customer has previously accepted the same tool, with the same specifications, and when we can objectively demonstrate that the tool meets all of the required acceptance criteria, and when the installation of the system is deemed perfunctory).

Not all of the indicators need to be met for us to conclude that control has transferred to the customer. In circumstances in which revenue is recognized prior to the product acceptance, the portion of revenue associated with our performance obligations to install product is deferred and recognized upon acceptance.

We enter into volume purchase agreements with some of our customers. We adjust the transaction consideration for estimated credits earned by our customers for such incentives. These credits are estimated based upon the forecasted and actual product sales for any given period and agreed-upon incentive rate. The estimate is updated at each reporting period.

We offer perpetual and term licenses for defects and data analysis software. The primary difference between perpetual and term licenses is the duration over which the customer can benefit from the use of the software, while the functionality and the features of the software are the same. With the acquisition of Orbotech we offer computer-aided manufacturing and engineering software solutions for the printed circuit boards production. Software is generally bundled with post-contract customer support ("PCS"), which includes unspecified software updates that are made available throughout the entire term of the arrangement. Revenue from software licenses is recognized at a point in time, when the software is made available to the customer. Revenue from PCS is deferred at contract inception and recognized ratably over the service period, or as services are performed.

Services and spare parts revenue

The majority of product sales include a standard 6 to 12-month warranty that is not separately paid for by the customers. The customers may also purchase extended warranty for periods beyond the initial year as part of the initial product sale. We have concluded that the standard 12-month warranty as well as any extended warranty periods included in the initial product sales are separate performance obligations. The estimated fair value of warranty services is deferred and recognized ratably as revenue over the warranty period, as the customer simultaneously receives and consumes the benefits of warranty services provided by us.

Additionally, we offer product maintenance and support services, which the customer may purchase separately from the standard and extended warranty offered as part of the initial product sale. Revenue from separately negotiated maintenance and support service contracts is also recognized over time based on the terms of the applicable service period. Revenue from services performed in the absence of a maintenance contract, including training revenue, is recognized when the related services are performed. We also sell spare parts, revenue from which is recognized when control over the spare parts is transferred to the customer.

Installation services include connecting and validating configuration of the product. In addition, several testing protocols are completed to confirm the equipment is performing to customer specifications. Revenue from product installation are deferred and recognized at a point in time, once installation is complete.

#### Significant Judgments

Our contracts with our customers often include promises to transfer multiple products and services. Each product and service is generally capable of being distinct and represents a separate performance obligation. Determining the SSP for each distinct performance obligation and allocation of consideration from an arrangement to the individual performance obligations and the appropriate timing of revenue recognition are significant judgments with respect to these arrangements. We typically estimate the SSP of products and services based on observable transactions when the products and services are sold on a standalone basis and those prices fall within a reasonable range. We typically have more than one SSP for individual products and services due to the stratification of these products by customers and circumstances. In these instances, we use information such as the size of the customer, geographic region, as well as customization of the products in determining the SSP. In instances where the SSP is not directly observable, we determine the SSP using information that includes market conditions, entity-specific factors, including discounting strategies, information about the customer or class of customer that is reasonably available and other observable inputs. While changes in the allocation of SSP between performance obligations will not affect the amount of total revenue recognized for a particular contract, any material changes could impact the timing of revenue recognition, which could have a material effect on our financial position and result of operations.

Although the products are generally not sold with a right of return, we may provide other credits or sales incentives, which are accounted for either as variable consideration or material right, depending on the specific terms and conditions of the arrangement. These credits and incentives are estimated at contract inception and updated at the end of each reporting period if and when additional information becomes available.

As outlined above, we use judgments to evaluate whether or not the customer has obtained control of the product and considers the several indicators in evaluating whether or not control has transferred to the customer. Not all of the indicators need to be met for us to conclude that control has transferred to the customer.

# Contract Assets/Liabilities

The timing of revenue recognition, billings and cash collections may result in accounts receivable, contract assets, and contract liabilities (deferred revenue) on our condensed consolidated balance sheet. A receivable is recorded in the period we deliver products or provide services when we have an unconditional right to payment. Contract assets primarily relate to the value of products and services transferred to the customer for which the right to payment is not just dependent on the passage of time. Contract assets are transferred to receivable when rights to payment become unconditional.

A contract liability is recognized when we receive payment or have an unconditional right to payment in advance of the satisfaction of performance. The contract liabilities represent (1) deferred product revenue related to the value of products that have been shipped and billed to customers and for which the control has not been transferred to the customers, and (2) deferred service revenue, which is recorded when we receive consideration, or such consideration is unconditionally due, from a customer prior to transferring services to the customer under the terms of a contract. Deferred service revenue typically results from warranty services, and maintenance and other service contracts.

Contract assets and liabilities related to rights and obligations in a contract are recorded net in the condensed consolidated balance sheets. Upon the adoption of ASC 606, deferred costs of revenue are included in other current assets while under the legacy guidance deferred costs of revenue was included in deferred system profit.

Business Combinations. We allocate the fair value of the purchase price of our acquisitions to the tangible assets acquired, liabilities assumed, and intangible assets acquired, including in-process research and development ("IPR&D"), based on their estimated fair values. The excess of the fair value of the purchase price over the fair values of these net tangible and intangible assets acquired is recorded as goodwill. Management's estimates of fair value are based upon assumptions believed to be reasonable, but our estimates and assumptions are inherently uncertain and subject to refinement. As a result, during the measurement period, which will not exceed one year from the acquisition date, we record adjustments to the assets acquired and liabilities assumed with the corresponding offset to goodwill. Upon the conclusion of the measurement period or final determination of the fair value of the purchase price of our acquisitions, whichever comes first, any subsequent adjustments are recorded to our condensed consolidated statements of operations.

The fair value of IPR&D is initially capitalized as an intangible asset with an indefinite life and assessed for impairment thereafter. When an IPR&D project is completed, the IPR&D is reclassified as an amortizable purchased intangible asset and amortized over the asset's estimated useful life. Acquisition-related expenses are recognized separately from the business combination and are expensed as incurred.

Derivative Financial Instruments. We use financial instruments, such as forward exchange contracts and currency options, to hedge a portion of, but not all, existing and forecasted foreign currency denominated transactions. The purpose of our foreign currency program is to manage the effect of exchange rate fluctuations on certain foreign currency denominated revenues, costs and eventual cash flows. The effect of exchange rate changes on forward exchange contracts is expected to offset the effect of exchange rate changes on the underlying hedged items. We also use interest rate lock agreements to hedge the risk associated with the variability of cash flows due to changes in the benchmark interest rate of the intended debt financing. We believe these financial instruments do not subject us to speculative risk that would otherwise result from changes in currency exchange rates or interest rates. All of our derivative financial instruments are recorded at fair value based upon quoted market prices for comparable instruments adjusted for risk of counterparty non-performance.

For derivative instruments designated and qualifying as cash flow hedges of forecasted foreign currency denominated transactions or debt financing expected to occur within twelve to eighteen months, the effective portion of the gains or losses is reported in accumulated other comprehensive income (loss) ("OCI") and reclassified into earnings in the same period or periods during which the hedged transaction affects earnings. Prior to adopting the new accounting guidance for hedge accounting, time value was excluded from the assessment of effectiveness for derivative instruments designated as cash flow hedges. Time value was amortized on a mark-to-market basis and recognized in earnings over the life of the derivative contract. For derivative contracts executed after adopting the new accounting guidance, the election to include time value for the assessment of effectiveness is made on all forward contracts designated as cash flow hedges. The change in fair value of the derivative are recorded in OCI until the hedged transaction is recognized in earnings. The assessment effectiveness of options contracts designated as cash flow hedges continue to exclude time value after adopting the new accounting guidance. The initial value of the component excluded from the assessment of effectiveness are recognized in earnings over the life of the derivative contracts. Any difference between change in the fair value of the excluded components and the amounts recognized in earnings are recorded in OCI. For derivative instruments that are not designated as a cash flow hedge, gains and losses are recognized in other expense (income), net. We use foreign currency forward contracts to hedge certain foreign currency denominated assets or liabilities. The gains and losses on these derivative instruments are largely offset by the changes in the fair value of the assets or liabilities being hedged.

Global Intangible Low-Taxed Income. The Tax Cuts and Jobs Act (the "Act") includes provisions for Global Intangible Low-Taxed Income ("GILTI") wherein taxes on foreign income are imposed in excess of a deemed return on tangible assets of foreign corporations. This income will effectively be taxed at a 10.5% tax rate in general. As a result, the Company's deferred tax assets and liabilities were being evaluated to determine if the deferred tax assets and liabilities should be recognized for the basis differences expected to reverse as a result of GILTI provisions that are effective for the Company after the fiscal year ending June 30, 2018, or should the tax on GILTI provisions be recognized as period costs in each year incurred. The Company has elected to account for GILTI as a component of current period tax expense starting from the first quarter of the fiscal year ending June 30, 2019.

# NOTE 2 - REVENUE

# New Revenue Accounting Standard

Method and Impact of Adoption

At the beginning of the fiscal year 2019, we adopted ASC 606 using the modified retrospective transition approach for all contracts completed and not completed as of the date of adoption. Under the modified retrospective transition approach, periods prior to the adoption date were not adjusted and continue to be reported in accordance with ASC 605. A cumulative effect of applying ASC 606 was recorded to the beginning retained earnings to reflect the impact of all existing arrangements under ASC 606.

The cumulative effect of applying ASC 606 represents a net decrease of \$21.0 million as of July 1, 2018, which primarily related to the following:

- A decrease of approximately \$97.0 million in retained earnings related to the deferral of estimated fair value of the warranty services provided with our products for which revenue will be recognized in future periods under ASC 606. Further, upon adoption of ASC 606, we will recognize the standard warranty for a majority of products as a separate performance obligation, while in prior periods, we accounted for the estimated warranty cost as a charge to costs of sales when revenue was recognized. This was partially offset by an increase in retained earnings of approximately \$37.0 million related to reversal of standard warranty expense, which was charged to cost of revenues in prior periods.
- An increase in retained earnings of approximately \$26.0 million due to a change in the timing of transfer of control over products to the customers

Under ASC 606, revenue is recognized earlier than it would have been recognized under legacy guidance primarily due to our assessment of timing of transfer of control. Additionally, we render standard warranty coverage on our products for 12 months, providing labor and parts necessary to repair and maintain the products during the warranty period. Prior to adoption of ASC 606, we accounted for the estimated warranty cost as a charge to costs of sales when revenue was recognized. Upon adoption of ASC 606, the standard warranty for the majority of products is recognized as a separate performance obligation in service revenue.

Orbotech adopted ASC 606 on January 1, 2018, and the effect of adopting the ASC 606 on Orbotech's revenues and operating income was not material. Orbotech's contracts under ASC 606 supports the recognition of revenue at a point in time for the majority of its contracts, which is consistent with its legacy revenue recognition model. Revenue on the majority of Orbotech's contracts will continue to be recognized upon delivery because this represents the point in time at which control is transferred to the customers. Revenues derived from performance obligations such as warranty and service contracts will continue to be recognized over the period of the service.

The following table, including the results from the acquisition of Orbotech, summarizes the effects of adopting ASC 606 on our condensed consolidated balance sheet as of March 31, 2019:

March 31, 2019 (In thousands)		As reported under ASC 606	Prior to adoption of ASC 606	Effect of changes
ASSETS				
Accounts receivable, net	\$	958,021	\$ 1,064,002	\$ (105,981)
Other current assets		270,079	130,172	139,907
Deferred income taxes		205,820	197,392	8,428
LIABILITIES				
Deferred system revenue	\$	228,745	\$ _	\$ 228,745
Deferred service revenue		182,119	97,190	84,929
Deferred system profit		_	323,107	(323,107)
Other current liabilities		833,747	866,870	(33,123)
Deferred service revenue, non-current		90,610	82,176	8,434
STOCKHOLDERS' EQUITY				
Retained earnings	\$	928,086	\$ 851,740	\$ 76,346
Accumulated other comprehensive income (loss)		(68,907)	(69,038)	131
	15			

The following table, including the results from the acquisition of Orbotech, summarizes the effects of adopting ASC 606 on our condensed consolidated statements of operations for the three months ended March 31, 2019:

As re	ported under		Prior to adoption of		
			ASC 606		Effect of changes
	_				
\$	793,224	\$	854,393	\$	(61,169)
	304,087		266,333		37,754
	486,945		499,209		(12,264)
	(9,282)		(9,041)		(241)
	28,745		29,755		(1,010)
	192,728		202,627		(9,899)
\$	1.23	\$	1.30	\$	(0.07)
\$	1.23	\$	1.29	\$	(0.06)
	\$	304,087 486,945 (9,282) 28,745 192,728	\$ 793,224 \$ 304,087 \$ 486,945 (9,282) 28,745 192,728 \$ 1.23 \$	As reported under ASC 606  \$ 793,224 \$ 854,393 304,087 266,333  486,945 499,209 (9,282) (9,041) 28,745 29,755 192,728 202,627  \$ 1.23 \$ 1.30	As reported under ASC 606  \$ 793,224 \$ 854,393 \$ 304,087 266,333  486,945 499,209 (9,041) 28,745 29,755 192,728 202,627  \$ 1.23 \$ 1.30 \$

The following table, including the results from the acquisition of Orbotech, summarizes the effects of adopting ASC 606 on our condensed consolidated statements of operations for the nine months ended March 31, 2019:

Nine months ended March 31, 2019 (In thousands, except per share amounts)	Prior to As reported under adoption of ASC 606 ASC 606			adoption of	:	Effect of changes
Revenues:						
Product	\$	2,474,652	\$	2,430,481	\$	44,171
Service		835,817		726,976		108,841
Costs and expenses:						
Costs of revenues		1,276,592		1,233,999		42,593
Other expense (income), net		(28,535)		(28,253)		(282)
Provision for income taxes		107,232		94,090		13,142
Net income attributable to KLA-Tencor		957,772		860,212		97,560
Net income per share attributable to KLA-Tencor:						
Basic	\$	6.20	\$	5.57	\$	0.63
Diluted	\$	6.17	\$	5.54	\$	0.63

# Contract Balances

	As of		As of				
(In thousands, except for percentage)	 March 31, 2019		July 1, 2018		\$ Change	% Change	
Accounts receivable, net	\$ 958,021	\$	635,878	\$	322,143	51 %	
Contract assets	\$ 91,518	\$	14,727	\$	76,791	521 %	
Contract liabilities	\$ 501,474	\$	556,691	\$	(55,217)	(10)%	

Our payment terms and conditions vary by contract type, although terms generally include a requirement of payment of 70% to 90% of total contract consideration within 30 to 60 days of shipment, with the remainder payable within 30 days of acceptance.

The change in contract assets during the nine months ended March 31, 2019 was mainly due to an increase in contract assets of \$71.1 million from the Orbotech Acquisition in the third quarter of fiscal year 2019 and \$19.4 million of revenue recognized in excess of the amounts billed to the customers, partially offset by \$14.7 million of contract assets reclassified to net accounts receivable as our right to consideration for these contract assets became unconditional. Contract assets are included in Other current assets on our condensed consolidated balance sheet.

During the nine months ended March 31, 2019, we recognized revenue of \$422.3 million that was included in contract liabilities as of July 1, 2018. This was partially offset by an increase in contract liabilities of \$28.8 million from the Orbotech Acquisition in the third quarter of fiscal year 2019, and the value of products and services billed to customers for which control of the products and service has not transferred to the customers. Contract liabilities are included in current and non-current liabilities on our condensed consolidated balance sheets.

# Remaining Performance Obligations

As of March 31, 2019, we had \$1.73 billion of remaining performance obligations, which represents our obligation to deliver products and services, and consists primarily of sales orders where written customer requests have been received. We expect to recognize approximately 5% to 15% of these performance obligations as revenue beyond the next twelve months, subject to risk of delays, pushouts, and cancellation by the customer, usually with limited or no penalties.

Refer to Note 17 "Segment Reporting and Geographic Information" for information related to revenue by geographic region as well as significant product and service offerings.

# Practical expedients

We apply the following practical expedients:

- We account for shipping and handling costs as activities to fulfill the promise to transfer the goods, instead of a promised service to our customer.
- We have elected to not adjust the promised amount of consideration for the effects of a significant financing component as we expect, at contract inception, that the period between when the entity transfers a promised good or service to a customer and when the customer pays for that good or service will generally be one year or less.
- We have elected to expense costs to obtain a contract as incurred because the expected amortization period is one year or less
- We have elected to reflect the aggregate effect of all modifications that occurred beforeJuly 1, 2018 in determining the transaction price, identifying the satisfied and unsatisfied performance obligations, and allocating the transaction price to the performance obligations.

# NOTE 3 – FAIR VALUE MEASUREMENTS

Our financial assets and liabilities are measured and recorded at fair value, except for our debt and certain equity investments in privately-held companies. Prior touly 1, 2018, the equity investments were generally accounted for under the cost method of accounting and were periodically assessed for other-than-temporary impairment when an event or circumstance indicated that an other-than-temporary decline in value may have occurred. Effective July 1, 2018, equity investments without a readily available fair value are accounted for using the measurement alternative. The measurement alternative is calculated as cost minus impairment, if any, plus or minus changes resulting from observable price changes.

Our non-financial assets, such as goodwill, intangible assets, and land, property and equipment, are assessed for impairment when an event or circumstance indicates that an other-than-temporary decline in value may have occurred.

Fair Value of Financial Instruments. We have evaluated the estimated fair value of financial instruments using available market information and valuations as provided by third-party sources. The use of different market assumptions and/or estimation methodologies could have a significant effect on the estimated fair value amounts. The fair value of our cash equivalents, accounts receivable, accounts payable and other current assets and liabilities approximate their carrying amounts due to the relatively short maturity of these items.

Fair Value Hierarchy. The authoritative guidance for fair value measurements establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy are described below:

Level 1	Valuations based on quoted prices in active markets for identical assets or liabilities that the entity has the ability to access.
Level 2	Valuations based on quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable data for substantially the full term of the assets or liabilities.
Level 3	Valuations based on inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.

As of March 31, 2019, the types of instruments valued based on quoted market prices in active markets included money market funds, certain U.S. Treasury securities and U.S. Government agency securities. Such instruments are generally classified within Level 1 of the fair value hierarchy. The types of instruments valued based on other observable inputs included corporate debt securities and sovereign securities. The market inputs used to value these instruments generally consist of market yields, reported trades and broker/dealer quotes. Such instruments are generally classified within Level 2 of the fair value hierarchy.

The principal market in which we execute our foreign currency contracts is the institutional market in an over-the-counter environment with a relatively high level of price transparency. The market participants generally are large financial institutions. Our foreign currency contracts' valuation inputs are based on quoted prices and quoted pricing intervals from public data sources and do not involve management judgment. These contracts are typically classified within Level 2 of the fair value hierarchy.

The fair value of deferred payments and contingent consideration payable, the majority of which were recorded in connection with business combinations during the three months ended March 31, 2019, were classified as Level 3 and estimated using significant inputs that were not observable in the market. See Note 6 "Business Combinations" for additional information.

Financial assets (excluding cash held in operating accounts and time deposits) and liabilities measured at fair value on a recurring basis, as of the date indicated below, were presented on our Condensed Consolidated Balance Sheet as follows:

		Quoted Prices in Active Markets for Identical Assets	Significant Other Observable Inputs	Littl	e or no market activity Inputs
As of March 31, 2019 (In thousands)	 Total	(Level 1)	 (Level 2)		(Level 3)
Assets					
Cash equivalents:					
Money market funds and other	\$ 592,141	\$ 592,141	\$ _	\$	
U.S. Treasury securities	_	_	_		_
Marketable securities:					
Corporate debt securities	439,246	_	439,246		_
Sovereign securities	10,991	_	10,991		_
U.S. Government agency securities	166,092	166,092	_		_
U.S. Treasury securities	 187,080	187,080	 		
Total cash equivalents and marketable securities(1)	 1,395,550	945,313	 450,237		_
Other current assets:					
Derivative assets	4,246	_	4,246		_
Other non-current assets:					
Executive Deferred Savings Plan	 203,286	153,528	49,758		_
Total financial assets(1)	\$ 1,603,082	\$ 1,098,841	\$ 504,241	\$	
Liabilities	 				
Derivative liabilities	\$ (1,816)	\$ —	\$ (1,816)	\$	_
Deferred payments	(8,800)	_	_		(8,800)
Contingent consideration payable					
	 (13,840)		 		(13,840)
Total financial liabilities	\$ (24,456)	<u> </u>	\$ (1,816)	\$	(22,640)

<sup>(1)</sup> Excludes cash of \$446.7 million held in operating accounts and time deposits of \$55.0 million as of March 31, 2019.

Financial assets (excluding cash held in operating accounts and time deposits) and liabilities measured at fair value on a recurring basis, as of the date indicated below, were presented on our Condensed Consolidated Balance Sheet as follows:

				Quoted Prices in Active Markets for Identical		Significant Other	
As of June 30, 2018 (In thousands)		Total	Assets (Level 1)			Observable Inputs (Level 2)	
Assets							
Cash equivalents:							
Corporate debt securities	\$	4,995	\$	_	\$	4,995	
Money market funds and other		863,115		863,115		_	
U.S. Government agency securities		7,675		_		7,675	
U.S. Treasury securities		1,996		_		1,996	
Marketable securities:							
Corporate debt securities		735,408		_		735,408	
Sovereign securities		17,142		_		17,142	
U.S. Government agency securities		316,022		299,501		16,521	
U.S. Treasury securities		405,654		364,574		41,080	
Total cash equivalents and marketable securities(1)		2,352,007		1,527,190		824,817	
Other current assets:							
Derivative assets		5,385		_		5,385	
Other non-current assets:							
Executive Deferred Savings Plan		197,213		143,580		53,633	
Total financial assets <sup>(1)</sup>	\$	2,554,605	\$	1,670,770	\$	883,835	
Liabilities							
Derivative liabilities	\$	(6,828)	\$	_	\$	(6,828)	
Total financial liabilities	\$	(6,828)	\$		\$	(6,828)	

<sup>(1)</sup> Excludes cash of \$473.8 million held in operating accounts and time deposits of \$54.5 million as of June 30, 2018.

There were no transfers between Level 1 and Level 2 fair value measurements during thenine months ended March 31, 2019. We did not have any assets or liabilities measured at fair value on a recurring basis within Level 3 fair value measurements as of June 30, 2018. See Note 8 "Debt" for disclosure of the fair value of our Senior Notes.

# NOTE 4 – FINANCIAL STATEMENT COMPONENTS

# **Consolidated Balance Sheets**

(In thousands)	Ma	As of arch 31, 2019	As of June 30, 2018		
Accounts receivable, net:		<u> </u>			
Accounts receivable, gross	\$	970,291	\$	663,317	
Allowance for doubtful accounts		(12,270)		(11,639)	
	\$	958,021	\$	651,678	
Inventories:					
Customer service parts	\$	337,720	\$	253,639	
Raw materials		466,133		331,065	
Work-in-process		314,480		280,208	
Finished goods		198,927		66,933	
	\$	1,317,260	\$	931,845	
Other current assets:					
Contract assets	\$	91,518	\$	_	
Deferred costs of revenue(1)		48,389		_	
Prepaid expenses		76,507		47,088	
Prepaid income and other taxes		34,479		23,452	
Other current assets		19,186		14,619	
	\$	270,079	\$	85,159	
Land, property and equipment, net:					
Land	\$	41,422	\$	40,599	
Buildings and leasehold improvements		389,270		335,647	
Machinery and equipment		662,025		577,077	
Office furniture and fixtures		28,475		22,171	
Construction-in-process		27,766		9,180	
		1,148,958		984,674	
Less: accumulated depreciation		(737,106)		(698,368)	
	\$	411,852	\$	286,306	
Other non-current assets:					
Executive Deferred Savings Plan(2)	\$	203,286	\$	197,213	
Other non-current assets		56,804		38,869	
	\$	260,090	\$	236,082	
Other current liabilities:					
Compensation and benefits	ø	246 420	en e	172 774	
Executive Deformed Sovings Plan(2)	\$	246,429 S 204,349	\$	173,774 199,505	
Executive Deferred Savings Plan <sup>(2)</sup> Other accrued expenses		176,677		123,869	
Customer credits and advances		148,389		116,440	
Interest payable		44,046		16,947	
Warranty		6,740		42,258	
Income taxes payable		7,117		23,287	
meome taxes payable	\$		\$	696,080	
Other non-current liabilities:	ψ	033,171	Ψ	070,000	
Income taxes payable	\$	390,904	\$	371,665	
Pension liabilities	\$	67,103	ψ	66,786	
Other non-current liabilities		117,592		54,791	
Other non-current naturates	<u>e</u>	_	e e		
	\$	575,599	\$	493,242	

<sup>(1)</sup> Deferred costs of revenue were previously included under deferred system profit prior to the adoption of ASC 606.

(2) We have a non-qualified deferred compensation plan (known as "Executive Deferred Savings Plan" or "EDSP") under which certain employees and non-employee directors may defer a portion of their compensation. The expense (benefit) associated with changes in the EDSP liability included in selling, general and administrative expense was \$19.3 million and \$0.9 million during the three months ended March 31, 2019 and 2018, respectively. The amount of net gains (losses) associated with changes in the EDSP assets included in selling, general and administrative expense was \$19.7 million and \$0.5 million during the three months ended March 31, 2019 and 2018, respectively and was \$7.7 million and \$14.4 million the nine months ended March 31, 2019 and 2018, respectively. For additional details, refer to Note 1, "Description of Business and Summary of Significant Accounting Policies," of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

# Accumulated Other Comprehensive Income (Loss)

The components of accumulated other comprehensive income (loss) ("OCI") as of the dates indicated below were as follows:

(In thousands)	cy Translation justments	Unrealized Gains ses) on Available-for- Sale Securities	zed Gains (Losses) ash Flow Hedges	(Loss	ealized Gains es) on Defined enefit Plans	Total		
Balance as of March 31, 2019	\$ (43,630)	\$ (3,181)	\$ (6,266)	\$	(15,830)	\$	(68,907)	
					_			
Balance as of June 30, 2018	\$ (29,974)	\$ (11,032)	\$ 1,932	\$	(14,859)	\$	(53,933)	

The effects on net income (loss) of amounts reclassified from accumulated OCI to the Condensed Consolidated Statement of Operations for the indicated period were as follows (in thousands):

	Location in the Condensed Consolidated	Three months ended March 31,					Nine months ended March 31,			
Accumulated OCI Components	Statements of Operations	2019 2018 2019		2019		2018				
Unrealized gains (losses) on cash flow hedges from foreign exchange and interest rate contracts <sup>(1)</sup>	Revenues	\$	655	\$	(65)	\$	3,343	\$	1,300	
	Costs of revenues		(17)		570		(309)		1,908	
	Interest expense		150		189		527		567	
	Other expense (income), net		158		_		158		_	
	Net gains (losses) reclassified from accumulated OCI	\$	946	\$	694	\$	3,719	\$	3,775	
Unrealized gains (losses) on available-for-sale securities	Other expense (income), net	\$	(313)	\$	2	\$	(1,263)	\$	(61)	

<sup>(1)</sup> Reflects the adoption of the new accounting guidance for hedge accounting in the second quarter of fiscal year 2019. For additional details, refer to Note 15, "Derivative Instruments and Hedging Activities."

The amounts reclassified out of accumulated OCI related to our defined benefit pension plans, which were recognized as a component of net periodic cost for the three and nine months ended March 31, 2019 were \$0.2 million and \$0.6 million, respectively. The amounts reclassified out of accumulated OCI related to our defined benefit pension plans, which were recognized as a component of net periodic cost for the three and nine months ended March 31, 2018 were \$0.4 million and \$1.2 million, respectively. For additional details, refer to Note 11, "Employee Benefit Plans" of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

# **NOTE 5 – MARKETABLE SECURITIES**

The amortized cost and fair value of marketable securities as of the dates indicated below were as follows:

As of March 31, 2019 (In thousands)	Amortized Cost		Gross Unrealized Gains	Gross Unrealized Losses	Fair Value		
Corporate debt securities	\$	441,279	\$ 43	\$ (2,076)	\$	439,246	
Money market funds and other		592,141	_	_		592,141	
Sovereign securities		11,037	_	(46)		10,991	
U.S. Government agency securities		166,867	1	(776)		166,092	
U.S. Treasury securities		188,283	_	(1,203)		187,080	
Subtotal		1,399,607	44	(4,101)		1,395,550	
Add: Time deposits <sup>(1)</sup>		54,986	_	_		54,986	
Less: Cash equivalents		645,431	_	_		645,431	
Marketable securities	\$	809,162	\$ 44	\$ (4,101)	\$	805,105	

As of June 30, 2018 (In thousands)	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Corporate debt securities	\$ 747,763	\$ 148	\$ (7,508)	\$ 740,403
Money market funds and other	863,115	_	_	863,115
Sovereign securities	17,293	_	(151)	17,142
U.S. Government agency securities	326,508	16	(2,827)	323,697
U.S. Treasury securities	411,329	3	(3,682)	407,650
Subtotal	 2,366,008	167	(14,168)	2,352,007
Add: Time deposits <sup>(1)</sup>	54,537	_	_	54,537
Less: Cash equivalents	930,608	_	_	930,608
Marketable securities	\$ 1,489,937	\$ 167	\$ (14,168)	\$ 1,475,936

<sup>(1)</sup> Time deposits excluded from fair value measurements.

Our investment portfolio consists of both corporate and government securities that have a maximum maturity ofthree years. The longer the duration of these securities, the more susceptible they are to changes in market interest rates and bond yields. As yields increase, those securities with a lower yield-at-cost show a mark-to-market unrealized loss. Most of our unrealized losses are due to changes in market interest rates and bond yields. We believe that we have the ability to realize the full value of all of these investments upon maturity. As of March 31, 2019, we had 296 investments in an unrealized loss position. The following table summarizes the fair value and gross unrealized losses of our investments that were in an unrealized loss position as of the date indicated below:

As of March 31, 2019 (In thousands)	Fair Value	Gross Unrealized Losses <sup>(1)</sup>
Corporate debt securities	\$ 397,009	\$ (2,076)
U.S. Treasury securities	187,080	(1,203)
U.S. Government agency securities	163,445	(776)
Sovereign securities	10,991	(46)
Total	\$ 758,525	\$ (4,101)

<sup>(1)</sup> As of March 31, 2019, we had investments in a continuous loss position for 12 months or more with a gross amount \$4.1 million.

The contractual maturities of securities classified as available-for-sale, regardless of their classification on our Condensed Consolidated Balance Sheet, as of the date indicated below were as follows:

As of March 31, 2019 (In thousands)	Amor	tized Cost	Fair Value		
Due within one year	\$	606,043	\$	603,536	
Due after one year through three years		203,119		201,569	
	\$	809,162	\$	805,105	

Actual maturities may differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties. Realized gains and losses on available-for-sale securities for the three and nine months ended March 31, 2019 and 2018 were immaterial.

# NOTE 6 - BUSINESS COMBINATIONS

# **Orbotech Acquisition**

On February 20, 2019, we completed the acquisition of 100% of the outstanding shares of Orbotech for aggregate purchase consideration of approximately \$3.26 billion which was paid in part by cash of \$1.90 billion, in part by KLA common shares with a fair value of \$1.32 billion and the balance by the assumption of stock options and RSUs. Orbotech is a global supplier of yield-enhancing and process-enabling solutions for the manufacture of electronics products. KLA acquired Orbotech to extend and enhance its portfolio of products to address market opportunities in the printed circuit board, flat panel display, advanced packaging and semiconductor manufacturing areas.

# **Preliminary Purchase Price Allocation**

The aggregate purchase consideration has been preliminarily allocated as follows (in thousands):

Purchase Price	
Cash for outstanding Orbotech shares <sup>(1)</sup>	\$ 1,901,948
Fair value of KLA-Tencor common stock issued for outstanding Orbotech shares <sup>(2)</sup>	1,324,657
Cash for Orbotech equity awards <sup>(3)</sup>	9,543
Fair value of KLA-Tencor common stock issued to settle Orbotech equity awards <sup>(4)</sup>	6,129
Stock options and RSUs assumed (5)	13,281
Total purchase consideration	3,255,558
Less: cash acquired	(215,640)
Total purchase consideration, net of cash acquired	\$ 3,039,918
Allocation	
Total current assets	\$ 694,143
Property, plant and equipment	94,290
Goodwill	1,773,544
Intangible assets	1,629,070
Other non-current assets	77,780
Total current liabilities(6)	(301,090)
Deferred tax liability	(825,341)
Total non-current liabilities (6)	(65,896)
Non-controlling interest	(36,582)
	\$ 3,039,918

<sup>(1)</sup> Represents the total cash paid to settle48.9 million outstanding Orbotech Shares as of February 20, 2019 at\$38.86 per Orbotech share.

- (2) Represents the fair value of 12.2 million shares of our common stock issued to settle48.9 million outstanding Orbotech shares. KLA issued 0.25 shares for each Orbotech share. The fair value of KLA's common stock was \$108.26 per share on the Acquisition Date.
- (3) Represents primarily cash consideration for the settlement of the vested stock options and restricted stock units for which services were rendered by the employees of Orbotech prior to the closing, and a small portion for the settlement of fractional shares.
- (4) Represents the fair value of share of 56,614 shares of KLA common stock issued to settle the vested Orbotech stock options. The fair value of KLA's common stock was \$108.26 per share on the Acquisition Date.
- (5) Represents the fair value of the assumed stock options and RSUs to the extent those related to services provided by the employee of Orbotech prior to closing. Also refer to Note 9, "Equity, Long-Term Incentive Compensation Plans and Non-Controlling Interest" for additional information about assumed stock options and RSUs.
- (6) On December 24, 2018, Orbotech, as part of its strategy to invest in the high growth area of the software business within the Printed Circuit Boards ("PCB") industry, acquired the remaining 50% shares of Frontline, which was prior to that accounted as an equity investee, from Mentor Graphics Development Services (Israel) Ltd. Orbotech acquired all of the joint venture interests it did not previously own for \$85.0 million in cash on hand and agreed to pay an additional\$10.0 million in cash over four years plus a cash earn-out of not less than \$5.0 million and up to \$20.0 million. The earn out amounts are based on revenues from a Frontline product currently under development. As of February 20, 2019, the estimated fair market values of the four-year cash payment and the earn-out are \$8.8 million and \$7.1 million, respectively. As of February 20, 2019, these amounts have been included in current and non-current liabilities at \$4.3 million and \$11.6 million respectively.

KLA allocated the purchase price to tangible and identified intangible assets acquired and liabilities assumed based on the preliminary estimates of their estimated fair values, which were determined using generally accepted valuation techniques based on estimates and assumptions made by management at the time of the Orbotech Acquisition and are subject to change during the measurement period which is not expected to exceed one year. The primary tasks that are required to be completed include validation of business level forecasts, jurisdictional forecasts, customer attrition rates and synergies expected to be derived from the acquisition of Orbotech, including any related tax impacts. Any adjustments to our preliminary purchase price allocation identified during the measurement period will be recognized in the period in which the adjustments are determined.

The operating results of Orbotech have been included in our consolidated financial statements for the three and nine months endedMarch 31, 2019 from the Acquisition Date. The goodwill was primarily attributable to the assembled workforce of Orbotech, planned growth in new markets and synergies expected to be achieved from the combined operations of KLA-Tencor and Orbotech. None of the goodwill is deductible for income tax purposes. Goodwill arising from the Orbotech Acquisition has been allocated to Orbotech which KLA is treating as a separate component as of March 31, 2019. As disclosed in Note 17 "Segment Reporting and Geographic Information", KLA is still in the process of completing the analysis of its segment reporting structure and upon completion of that analysis, goodwill associated with the Orbotech acquisition will be assigned to the appropriate reporting units.

# **Intangible Assets**

The estimated fair value and weighted average useful life of the Orbotech intangible assets are as follows:

(In thousands)	Fair Value		Weighted Average Useful Lives
Existing technology <sup>(1)</sup>	\$ 1,023,000	_	8
Customer-related assets(2)	299,000		8
Backlog <sup>(3)</sup>	29,000		1
Trade name <sup>(4)</sup>	92,500		7
Off market leases (5)	2,070	2,070	7
Total identified finite-lived intangible assets	1,445,570	_	
In-process research and development <sup>(6)</sup>	183,500		N/A
Total identified intangible assets	\$ 1,629,070		

- Existing technology was identified from the products of Orbotech and its fair value was determined using the Relief-from-Royalty Method under the income approach, which estimates the cost savings generated by a company related to the ownership of an asset for which it would otherwise have had to pay royalties or license fees on revenues earned through the use of the asset. The discount rate used was determined at the time of measurement based on an analysis of the implied internal rate of return of the transaction, weighted average cost of capital and weighted average return on assets. The economic useful life was determined based on the technology cycle related to each developed technology, as well as the cash flows over the forecast period.
- (2) Customer contracts and related relationships represent the fair value of the existing relationships with the Orbotech customers and its fair value was determined using the Multi-Period Excess Earning Method which involves isolating the net earnings attributable to the asset being measured based on present value of the incremental after-tax cash flows (excess earnings) attributable solely to the intangible asset over its remaining useful life. The economic useful life was determined based on historical customer turnover rates.
- (3) Backlog primarily relates to the dollar value of purchase arrangements with customers, effective, as of a given point in time, that are based on mutually agreed terms which, in some cases, may still be subject to completion of written documentation and may be changed or cancelled by the customer, often without penalty. Orbotech's backlog consists of these arrangements with assigned shipment dates expected, in most cases, within three to twelve months. The fair value was determined using the Multi-Period Excess Earning Method. The economic useful life is based on the time to fulfill the outstanding order backlog obligation.
- (4) Trade name primarily relates to the "Orbotech" trade name. The fair value was determined by applying the relief-from-royalty method under the income approach. The economic useful life was determined based on the expected life of the trade name.
- (5) The favorable / unfavorable components of the acquired leases were determined using the Income Approach which involves present valuing the difference in future cash flows between the contracted lease payments and the rent payable to a market participant over the lease terms. The economic useful life is based on the remaining lease term.
- (6) The fair value of in-process research and development ("IPR&D") was determined using the relief-from-royalty method under the income approach, which estimates the cost savings generated by a company related to the ownership of an asset for which it would otherwise have had to pay royalties or license fees on revenues earned through the use of the asset.

We believe the amounts of purchased intangible assets recorded above represent the fair values of and approximate the amounts a market participant would pay for, these intangible assets as of the acquisition date.

Our statements of operations for the three and nine months ended March 31, 2019 included revenue of \$161.3 million and a net loss of \$28.7 million from Orbotech.

# Other Fiscal 2019 Acquisitions

During the three months ended March 31, 2019 we acquired three privately-held companies primarily to expand our products and services offerings for an aggregate purchase price of \$118.0 million, including the fair value of the promise to pay additional consideration of up to \$13.0 million contingent on the achievement of certain milestones. As of March 31, 2019, the estimated fair value of the additional consideration was \$4.8 million, which is classified as a current liability on the condensed consolidated balance sheet.

During the three months ended September 30, 2018 we acquired two privately-held companies for an aggregate purchase price of \$15.4 million, including the fair value of the promise to pay total additional consideration of up to \$6.0 million contingent on the achievement of certain milestones. As of March 31, 2019, the estimated fair value of the additional consideration was \$1.9 million, which is classified as a current liability on the condensed consolidated balance sheet.

None of these acquisitions were individually material to our consolidated financial statements.

The aggregate purchase price of the other fiscal 2019 acquisitions was allocated on a preliminary basis as follows:

(In thousands)	I	Fair Value
Net tangible assets (including Cash and cash equivalents of \$2.6 million)	\$	13,468
Identifiable intangible assets		76,630
Goodwill		43,357
Total	\$	133,455

A portion of the goodwill is deductible for income tax purposes. Our statements of operations for the three and nine months ended March 31, 2019 included revenues of \$2.3 million and \$3.1 million, respectively, and net losses of \$2.8 million and \$3.5 million, respectively, from these privately-held companies.

KLA, in the aggregate for the Orbotech and other fiscal 2019 acquisitions, incurred approximately\$37.2 million of acquisition-related costs, which are primarily included within selling, general and administrative expenses in our condensed consolidated statements of operations.

# Fiscal 2018 Acquisition

In the fiscal year ended June 30, 2018, we acquired a product line from Keysight Technologies, Inc., a related party, for a total purchase consideration of \$12.1 million, of which \$5.2 million was allocated to goodwill based on the fair value at the acquisition date. Goodwill recognized was deductible for income tax purposes. For additional details, refer to Note 5 "Business Combinations," of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

# **Supplemental Unaudited Pro Forma Information:**

The following unaudited pro forma financial information summarizes the combined results of operations for KLA-Tencor, Orbotech, and the three acquisitions completed in the third quarter of fiscal 2019 as if the companies were combined as of the beginning of fiscal year 2018. The unaudited pro forma information includes adjustments to amortization and depreciation for intangible assets and property, plant and equipment acquired, adjustments to stock-based compensation expense, the purchase accounting effect on inventory acquired, the purchase accounting effect on deferred revenue, interest expense and amortization of debt issuance costs associated with the Senior Notes financing, and transaction costs.

The table below reflects the impact of material and nonrecurring adjustments to the unaudited pro forma results for the three and nine months ended March 31, 2019 and 2018 that are directly attributable to the acquisitions:

	Three months ended				Nine months ended			
	March 31,				March 31,			
Non-recurring Adjustments (In thousands)	2019 2018		2018	2019			2018	
Decrease/ (increase) to revenue as a result of deferred revenue fair value adjustment	\$	_	\$	(536)	\$	_	\$	5,625
(Decrease) / increase to expense as a result of inventory fair value adjustment	\$	78	\$	468	\$	1,029	\$	85,904
(Decrease) / increase to expense as a result of transaction costs	\$	(53,342)	\$	(8,615)	\$	(61,378)	\$	65,535
(Decrease) / increase to expense as a result of compensation costs	\$	1,724	\$	3,009	\$	7,918	\$	39,820

The unaudited pro forma information presented below is for informational purposes only and is not necessarily indicative of our consolidated results of operations of the combined business had the acquisitions actually occurred at the beginning of fiscal year 2018 or of the results of our future operations of the combined businesses.

		Pro Fo	orma			Pro	Forma	ı
		Three months ended March 31,				nded		
(In thousands)		2019		2018		2019		2018
Revenues	\$	1,160,678	\$	1,271,326	\$	4,165,268	\$	3,730,272
Net income attributable to KLA-Tencor	\$	192,577	\$	293,593	\$	1,033,653	\$	260,537

We have not included pro forma results of operations for the acquisition of privately-held companies completed in the first quarter of fiscal 2019 herein as they were not material to us on either an individual or in aggregate. We included the results of operations of each acquisition in our condensed consolidated statements of operations from the date of each acquisition.

# NOTE 7 - GOODWILL AND PURCHASED INTANGIBLE ASSETS

# Goodwill

We currently have four reporting units: Wafer Inspection, Patterning, Global Service and Support ("GSS"), and Others. The assignment of goodwill associated with Orbotech Acquisition to the reporting units has not yet been completed and therefore shown as a separate component. Refer to Note 17 "Segment Reporting and Geographic Information" for additional details. The following table presents goodwill carrying value and the movements during the nine months ended March 31, 2019:

(In thousands)	Waf	er Inspection		Patterning		Patterning		Patterning		GSS		Others		Orbotech		Total
Balance as of June 30, 2018	\$	281,005	\$	53,255	\$	8,039	\$	12,399	\$		\$	354,698				
Acquired goodwill		_		24,863		17,318		1,176		1,773,544		1,816,901				
Foreign currency and other adjustments		(14)		_		_		_		1,317		1,303				
Balance as of March 31, 2019	\$	280,991	\$	78,118	\$	25,357	\$	13,575	\$	1,774,861	\$	2,172,902				

The change in goodwill during the nine months ended March 31, 2019 resulted primarily from \$1.77 billion related to the Orbotech Acquisition and \$43.4 million related to the acquisition of the privately-held companies during the period. For additional details, refer to Note 6 "Business Combinations".

We performed a qualitative assessment of the goodwill for our wafer inspection, patterning, GSS, and others reporting units during the three months ended March 31, 2019. Based on this assessment we concluded that it was more likely than not that the fair value of each of the reporting units exceeded its carrying amount. As a result of our determination based on our qualitative assessment, it was not necessary to perform the quantitative goodwill impairment test at this time. In assessing the qualitative factors, we considered the impact of key factors, including changes in the industry and competitive environment, market capitalization, stock price, earnings multiples, budgeted-to-actual revenue performance from prior year, gross margin and cash flows from operating activities. In addition, for goodwill associated with the Orbotech acquisition, no impairment indicators were identified as part of our goodwill impairment process.

Based on our assessment, goodwill in the reporting units was not impaired as ofMarch 31, 2019 or June 30, 2018.

# **Purchased Intangible Assets**

The components of purchased intangible assets as of the dates indicated below were as follows:

(In thousands)			As of March 31, 2019			As of June 30, 2018	
<u>Category</u>	Range of Useful Lives	Gross Carrying Amount	Accumulated Amortization, Impairment, and Other	Net Amount	Gross Carrying Amount	Accumulated Amortization and Impairment	Net Amount
Existing technology	4-8 years	\$ 1,238,037	\$ 161,827	\$ 1,076,210	\$ 160,859	\$ 144,202	\$ 16,657
Trade name/Trademark	5-7 years	115,573	21,638	93,935	20,993	20,060	933
Customer relationships	4-9 years	370,665	59,740	310,925	56,680	55,136	1,544
Backlog and other	<1-8.5 years	35,437	5,267	30,170	660	461	199
Intangible assets subject to amortization		1,759,712	248,472	1,511,240	239,192	219,859	19,333
In-process research and development		183,500	427	183,073	_	_	_
Total		\$ 1,943,212	\$ 248,899	\$ 1,694,313	\$ 239,192	\$ 219,859	\$ 19,333

Purchased intangible assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset or asset group may not be recoverable. The change in purchased intangible assets gross carrying amount resulted primarily from the Orbotech Acquisition and the acquisition of the privately-held companies. For additional details, refer to Note 6 "Business Combinations."

Amortization expense for purchased intangible assets for the periods indicated below was as follows:

	Three months ended				Nine months ended			
	March 31,				March 31,			
(In thousands)	. <u></u>	2019		2018		2019		2018
Amortization expense- Cost of revenues	\$	15,770	\$	1,122	\$	17,628	\$	3,366
Amortization expense- Selling, general and administrative		10,086		65		10,973		220
Amortization expense- Research and development		12		_		12		_
Total	\$	25,868	\$	1,187	\$	28,613	\$	3,586

Based on the purchased intangible assets gross carrying amount recorded as ofMarch 31, 2019, the underlying assets, the remaining estimated annual amortization expense is expected to be as follows:

Fiscal year ending June 30:	mortization thousands)
2019 (remaining 3 months)	\$ 59,114
2020	216,956
2021	196,915
2022	196,915
2023	195,691
Thereafter	645,649
Total	\$ 1,511,240

# NOTE 8 – DEBT

The following table summarizes our debt as of March 31, 2019 and June 30, 2018:

		As of March	31, 2019	As of June	2 30, 2018
	Amount (In thousands)		Effective Interest Rate	Amount (In thousands)	Effective Interest Rate
Fixed-rate 3.375% Senior Notes due on November 1, 2019	\$	250,000	3.377%	\$ 250,000	3.377%
Fixed-rate 4.125% Senior Notes due on November 1, 2021		500,000	4.128%	500,000	4.128%
Fixed-rate 4.650% Senior Notes due on November 1, 2024		1,250,000	4.682%	1,250,000	4.682%
Fixed-rate 5.650% Senior Notes due on November 1, 2034		250,000	5.670%	250,000	5.670%
Fixed-rate 4.1000% Senior Notes due on March 15, 2029		800,000	4.159%	_	—%
Fixed-rate 5.000% Senior Notes due on March 15, 2049		400,000	5.047%	_	-%
Total		3,450,000		2,250,000	
Unamortized discount		(8,948)		(2,523)	
Unamortized debt issuance costs		(18,406)		 (10,075)	
Total	\$	3,422,646		\$ 2,237,402	
Reported as:					
Current portion of long-term debt	\$	249,997		\$ _	
Long-term debt		3,172,649		2,237,402	
Total	\$	3,422,646		\$ 2,237,402	

As of March 31, 2019, future principal payments for the long-term debt are \$250.0 million in fiscal year 2020; \$500.0 million in fiscal year 2022; and \$2.70 billion after fiscal year 2023.

# Senior Notes:

In March 2019 and November 2014, we issued\$1.20 billion and \$2.50 billion, respectively (each, a "2019 Senior Notes", a "2014 Senior Notes", and collectively the "Senior Notes"), aggregate principal amount of senior, unsecured long-term notes.

The interest rate specified for each series of the 2014 Senior Notes will be subject to adjustments from time to time if Moody's Investor Service, Inc. ("Moody's") or Standard & Poor's Ratings Services ("S&P") or, under certain circumstances, a substitute rating agency selected by us as a replacement for Moody's or S&P, as the case may be (a "Substitute Rating Agency"), downgrades (or subsequently upgrades) its rating assigned to the respective series of the 2014 Senior Notes such that the adjusted rating is below investment grade. For additional details, refer to Note 7 "Debt" of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018. Unlike the 2014 Senior Notes, the interest rate for each series of the 2019 Senior Notes will not be subject to such adjustments. During the three months ended June 30, 2018, we entered into a series of forward contracts (the "2018 Rate Lock Agreements") to lock the benchmark interest rate with notional amount of \$500.0 million in aggregate. In October 2014, we entered into a series of forward contracts to lock the 10-year treasury rate ("benchmark rate") on a portion of the 2014 Senior Notes with a notional amount of \$1.00 billion in aggregate. For additional details on the forward contracts, refer to Note 15, "Derivative Instruments and Hedging Activities" of this report.

The original discounts on the 2019 Senior Notes and the 2014 Senior Notes amounted to \$6.7 million and \$4.0 million, respectively and are being amortized over the life of the debt. Interest is payable semi-annually on May 1 and November 1 of each year for the 2014 Senior Notes and semi-annually on March 15 and September 15 of each year for the 2019 Senior Notes. The indenture for the Senior Notes (the "Indenture") includes covenants that limit our ability to grant liens on our facilities and enter into sale and leaseback transactions, subject to certain allowances under which certain sale and leaseback transactions are not restricted.

In certain circumstances involving a change of control followed by a downgrade of the rating of a series of Senior Notes by at least two of Moody's, S&P and Fitch Inc., unless we have exercised our rights to redeem the Senior Notes of such series, we will be required to make an offer to repurchase all or, at the holder's option, any part, of each holder's Senior Notes of that series pursuant to the offer described below (the "Change of Control Offer"). In the Change of Control Offer, we will be required to offer payment in cash equal to 101% of the aggregate principal amount of Senior Notes repurchased plus accrued and unpaid interest, if any, on the Senior Notes repurchased, up to, but not including, the date of repurchase.

Based on the trading prices of the Senior Notes on the applicable dates, the fair value of the Senior Notes as ofMarch 31, 2019 and June 30, 2018 was approximately \$3.61 billion and \$2.33 billion, respectively. While the Senior Notes are recorded at cost, the fair value of the long-term debt was determined based on quoted prices in markets that are not active; accordingly, the long-term debt is categorized as Level 2 for purposes of the fair value measurement hierarchy.

As of March 31, 2019, we were in compliance with all of our covenants under the Indenture associated with the Senior Notes.

# Revolving Credit Facility:

In November 2017, we entered into a Credit Agreement (the "Credit Agreement") providing for a\$750.0 million five-year unsecured Revolving Credit Facility (the "Revolving Credit Facility"), which replaced our prior Credit Facility. Subject to the terms of the Credit Agreement, the Revolving Credit Facility may be increased in an amount up to \$250.0 million in the aggregate. In November 2018, we entered into an Incremental Facility, Extension and Amendment Agreement (the "Amendment"), which amends the Credit Agreement to (a) extend the Maturity Date (the "Maturity Date") from November 30, 2022 to November 30, 2023, (b) increase the total commitment by \$250.0 million and (c) effect certain other amendments to the Credit Agreement as set forth in the Amendment. After giving effect to the Amendment, the total commitments under the Credit Agreement are \$1.00 billion. During the third quarter of the fiscal year ending June 30, 2019, we made borrowings of\$900.0 million from the Revolving Credit Facility, which were paid in full in the same quarter. As of March 31, 2019, we had no outstanding borrowings under the Revolving Credit Facility.

We may borrow, repay and reborrow funds under the Revolving Credit Facility until the Maturity Date, at which time such Revolving Credit Facility will terminate, and all outstanding loans under such facility, together with all accrued and unpaid interest, must be repaid. We may prepay outstanding borrowings under the Revolving Credit Facility at any time without a prepayment penalty.

Borrowings under the Revolving Credit Facility will bear interest, at our option, at either: (i) the Alternative Base Rate ("ABR") plus a spread, which ranges from bps to 75 bps, or (ii) the London Interbank Offered Rate ("LIBOR") plus a spread, which ranges from 100 bps to 175 bps. The spreads under ABR and LIBOR are subject to adjustment in conjunction with credit rating downgrades or upgrades. We are also obligated to pay an annual commitment fee on the daily undrawn balance of the Revolving Credit Facility, which ranges from 10 bps to 25 bps, subject to an adjustment in conjunction with changes to our credit rating. As ofMarch 31, 2019, we pay an annual commitment fee of 12.5 bps on the daily undrawn balance of the Revolving Credit Facility.

The Revolving Credit Facility requires us to maintain an interest expense coverage ratio as described in the Credit Agreement, on a quarterly basis, covering the trailing four consecutive fiscal quarters of no less than 3.50 to 1.00. In addition, we are required to maintain the maximum leverage ratio as described in the Credit Agreement, on a quarterly basis of 3.00 to 1.00, covering the trailing four consecutive fiscal quarters for each fiscal quarter, which can be increased to 4.00 to 1.00 for a period of time in connection with a material acquisition or a series of material acquisitions. As of March 31, 2019, we elected to increase the maximum allowed leverage ratio to 4.00 to 1.00 following the Orbotech Acquisition.

We were in compliance with all covenants under the Credit Agreement as of March 31, 2019.

# NOTE 9 - EQUITY, LONG-TERM INCENTIVE COMPENSATION PLANS AND NON-CONTROLLING INTEREST

# **Equity Incentive Program**

As of March 31, 2019, we were able to issue new equity incentive awards, such as restricted stock units ("RSUs") and stock options, to our employees, consultants and members of our Board of Directors under our 2004 Equity Incentive Plan (the "2004 Plan") with 11.8 million shares available for issuance.

For details of the 2004 Plan refer to Note 8 "Equity and Long-Term Incentive Compensation Plans," of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

# **Assumed Equity Plans**

As of the Acquisition Date we assumed outstanding equity incentive awards under the following Orbotech equity incentive plans: (i) Equity Remuneration Plan for Key Employees of Orbotech Ltd. and its Affiliates and Subsidiaries (as Amended and Restated in 2005), (ii) 2010 Equity-Based Incentive Plan, and (iii) 2015 Equity-Based Incentive Plan (each, an "Assumed Equity Plan" and collectively the "Assumed Equity Plans"). The awards under the Assumed Equity Plans, previously issued in the form of stock options and restricted share units ("RSUs"), were generally settled as follows:

- a) Each award of Orbotech's stock options and RSUs that was outstanding and vested immediately prior to the Acquisition Date (collectively the "Vested Equity Awards") was canceled and terminated and converted into the right to receive the purchase consideration in respect of such Vested Equity Awards as of the Acquisition Date, and in the case of stock options, less the exercise price.
- b) Each award of Orbotech's stock options and RSUs that was outstanding and unvested immediately prior to the Acquisition Date was assumed by us (each, an "Assumed Option" and "Assumed RSU", and collectively the "Assumed Equity Awards") and converted to stock options and RSUs exercisable for the number of shares of our common stock equal to the product of (i) the number of Orbotech shares underlying such Assumed Equity Awards as of immediately prior to the Acquisition Date multiplied by (ii) the exchange ratio defined in the Acquisition Agreement. The Assumed Equity Awards generally retain all of the rights, terms and conditions of the respective plans under which they were originally granted, including the same service-based vesting schedule, applicable thereto.

As of the Acquisition Date, the estimated fair value of the Assumed Equity Awards was\$55.0 million, of which \$13.3 million was recognized as goodwill and the balance of \$41.7 million will be recognized as stock-based compensation expense over the remainder term of the Assumed Equity Awards. The fair value of the Assumed Equity Awards for services rendered through the Acquisition Date was recognized as a component of the merger consideration, with the remaining fair value related to the post-combination services to be recorded as stock-based compensation over the remaining vesting period.

A total of 14,558 and 518,971 shares of our common stock underly the Assumed Options and RSUs and have an estimated weighted average fair value at the Acquisition Date of \$53.27 and \$104.49 per share, respectively. As of March 31, 2019, there were 14,558 and 482,317 shares of our common stock underlying the outstanding Assumed Options and RSUs, respectively, under the Assumed Equity Plans. The weighted-average remaining contractual terms, the aggregate intrinsic values, and the weighted average exercise price for the stock options outstanding under the Assumed Equity Plans as of March 31, 2019 were 4.67 years, \$1.0 million, and \$54.00 per share, respectively. No Assumed Options were exercised during the three months ended March 31, 2019.

# **Equity Incentive Plans - General Information**

The following table summarizes the combined activity under our equity incentive plans:

(In thousands)	Available For Grant <sup>(1) (5)</sup>
Balance as of June 30, 2018	3,680
Plan shares increased	12,000
Restricted stock units granted (2)(3)	(2,209)
Restricted stock units granted adjustment (4)	5
Restricted stock units canceled	20
Plan shares expired (1998 Director Plan)	(1,660)
Balance as of March 31, 2019	11,836

- (1) The number of RSUs reflects the application of the award multiplier (1.8x or 2.0x depending on the grant date of the applicable
- (2) Includes RSUs granted to senior management during thenine months ended March 31, 2019 with performance-based vesting criteria (in addition to service-based vesting criteria for any of such RSUs that are deemed to have been earned) ("performance-based RSUs"). As of March 31, 2019, it had not yet been determined the extent to which (if at all) the performance-based vesting criteria had been satisfied. Therefore, this line item includes all such performance-based RSUs granted during the nine months ended March 31, 2019, reported at the maximum possible number of shares that may ultimately be issuable if all applicable performance-based criteria are achieved at their maximum levels and all applicable service-based criteria are fully satisfied (0.7 million shares for the nine months ended March 31, 2019 reflects the application of the multiplier described above).

- (3) Includes RSUs granted to executive management during the three months endedMarch 31, 2019 with both a market condition and a service condition ("market-based RSUs"). Under the award agreements, the vesting of the market-based RSUs is contingent on achieving total stockholder return (including stock price appreciation and cash dividends) objectives on a per share basis of equal to or greater than 150%, 175% and 200% multiplied by the measurement price of\$116.39 during the five-year period ending March 20, 2024. The awards are split into three tranches and, to the extent that total stockholder return targets have been met, one-third of the maximum number of shares available under these awards will vest on each of the third, fourth, and fifth anniversaries of the grant date. This line item includes all such market-based RSUs granted during the three months ended March 31, 2019 reported at the maximum possible number of shares that may ultimately be issuable if all applicable market-based criteria are met at their maximum levels and all applicable service-based criteria are fully satisfied (0.5 million shares for the nine months endedMarch 31, 2019 reflects the application of the multiplier described above).
- (4) Represents the portion of RSUs granted with performance-based vesting criteria and reported at the actual number of shares issued upon achievement of the performance vesting criteria during the nine months ended March 31, 2019.
- (5) No additional stock options, RSUs or other awards will be granted under the Assumed Equity

The fair value of stock-based awards is measured at the grant date and is recognized as an expense over the employee's requisite service period. For RSUs granted without "dividend equivalent" rights, fair value is calculated using the closing price of our common stock on the grant date, adjusted to exclude the present value of dividends which are not accrued on those RSUs. The fair value for RSUs granted with "dividend equivalent" rights is determined using the closing price of our common stock on the grant date. The fair value for market-based RSUs is estimated on the grant date using a Monte Carlo simulation model with the following assumptions: expected volatility of 28.14%, based on a combination of implied volatility from traded options on our common stock and the historical volatility of our common stock; dividend yield of 2.47%, based on our current expectations about our anticipated dividend policy; risk-free interest rate of 2.38%, based on the implied yield available on U.S. Treasury zero-coupon issues with terms equal to the contractual terms of each tranche; and an expected term which takes into consideration the vesting term and the contractual term of the market-based award. The awards are amortized over service periods of 3, 4, and 5 years, which is the longer of the explicit service period or the period in which the market target is expected to be met. The fair value for purchase rights under our Employee Stock Purchase Plan is determined using a Black-Scholes model.

The following table shows stock-based compensation expense for the indicated periods:

	 Three months ended March 31,				Nine mon Mar	ths end ch 31,	ed
(In thousands)	2019 (1) 201			2019			2018
Stock-based compensation expense by:							
Costs of revenues	\$ 3,105	\$	2,386	\$	6,759	\$	5,458
Research and development	4,986		3,185		9,988		7,631
Selling, general and administrative	26,102		10,639		49,279		30,891
Total stock-based compensation expense	\$ 34,193	\$	16,210	\$	66,026	\$	43,980

 Includes \$10.9 million of stock-based compensation expense acceleration for certain equity awards for Orbotech employees.

The following table shows stock-based compensation capitalized as inventory as of the dates indicated below:

(In thousands)	March 31, 2019	June 30, 2018
Inventory	\$ 4,943	\$ 4,580

# **Restricted Stock Units**

The following table shows the activity and weighted-average grant date fair value for RSUs during thenine months ended March 31, 2019:

	Shares(1) (In thousands)	Weighted-Average Grant Date Fair Value		
Outstanding restricted stock units as of June 30, 2018 <sup>2)</sup>	2,014	\$ 76.50		
Granted <sup>(2)</sup>	1,104	\$ 103.59		
Granted adjustments(3)	(2)	\$ 50.88		
Assumed upon Orbotech Acquisition <sup>(4)</sup>	519	\$ 104.49		
Vested and released	(409)	\$ 68.73		
Withheld for taxes	(285)	\$ 68.73		
Forfeited	(10)	\$ 81.55		
Outstanding restricted stock units as of March 31, 2019 <sup>2)</sup>	2,931	\$ 93.46		

- (1) Share numbers reflect actual shares subject to awarded RSUs. Under the terms of the 2004 Plan, the number of shares subject to each award reflected in this number is multiplied by either 1.8x or 2.0x (depending on the grant date of the award) to calculate the impact of the award on the share reserve under the 2004 Plan.
- (2) Includes performance-based and market-based RSUs. As of March 31, 2019, it had not yet been determined the extent to which (if at all) the performance-based or market-based vesting criteria had been satisfied. Therefore, this line item includes all such RSUs reported at the maximum possible number of shares (42 thousand shares for the fiscal year ended June 30, 2017, 0.2 million shares for the fiscal year ended June 30, 2018 and 0.6 million shares for the nine months ended March 31, 2019) that may ultimately be issuable if all applicable performance-based and market-based criteria are achieved at their maximum and all applicable service-based criteria are fully satisfied.
- (3) Represents the portion of RSUs granted with performance-based vesting criteria and reported at the actual number of shares issued upon achievement of the performance vesting criteria during nine months ended March 31, 2019.
- (4) Represents Assumed RSUs under the Assumed Equity Plans. Since the Assumed RSUs do not have "dividend equivalent" rights, the fair value was calculated using the closing price of our common stock on the Acquisition Date, adjusted to exclude the present value of dividends.

The RSUs granted by us generally vest (a) with respect to awards with only service-based vesting criteria, over periods ranging from two to four years and (b) with respect to awards with both performance-based and service-based vesting criteria, in two equal installments on the third and fourth anniversaries of the grant date and (c) with respect to awards with both market-based and service-based vesting criteria in three equal installments on the third, fourth and fifth anniversaries of the grant date, in each case subject to the recipient remaining employed by us as of the applicable vesting date. The RSUs granted to the independent members of the Board of Directors vest annually.

The following table shows the weighted-average grant date fair value per unit for the RSUs granted, vested, and tax benefits realized by us in connection with vested and released RSUs for the indicated periods:

	Three months ended March 31,					Nine months ended March 31,					
(In thousands, except for weighted-average grant date fair value)		2019 2018		2018	118 2019		201				
Weighted-average grant date fair value per unit	\$	\$ 97.60		109.80	\$	103.59	\$	91.84			
Weighted-average fair value per unit assumed upon Orbotech Acquisition	\$	104.49	\$	_	\$	104.49	\$	_			
Grant date fair value of vested restricted stock units	\$	4,740	\$	745	\$	47,674	\$	42,601			
Tax benefits realized by us in connection with vested and released restricted stock units	\$	170	\$	249	\$	10.900	\$	16,731			

As of March 31, 2019, the unrecognized stock-based compensation expense balance related to RSUs was\$171.5 million, excluding the impact of estimated forfeitures, and will be recognized over a weighted-average remaining contractual term and an estimated weighted-average amortization period of 1.6 years. The intrinsic value of outstanding RSUs as of March 31, 2019 was \$350.0 million.

# **Cash-Based Long-Term Incentive Compensation**

We have adopted a cash-based long-term incentive ("Cash LTI Plan") program for many of our employees as part of our employee compensation program. Executives and non-employee members of the board of directors are not participating in this program. During the nine months ended March 31, 2019 and 2018, we approved Cash LTI awards of \$7.9 million, respectively under our Cash LTI Plan. During the three months ended March 31, 2019 and 2018, we recognized \$12.2 million and 11.6 million, respectively, in compensation expense under the Cash LTI Plan. During the nine months ended March 31, 2019 and 2018, we recognized \$39.4 million and 37.9 million, respectively, in compensation expense under the Cash LTI Plan. As of March 31, 2019, the unrecognized compensation balance (excluding the impact of estimated forfeitures) related to the Cash LTI Plan was \$93.7 million. For details, refer to Note 8 "Equity and Long-Term Incentive Compensation Plans," of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

# **Employee Stock Purchase Plan**

Our Employee Stock Purchase Plan ("ESPP") provides that eligible employees may contribute up to 15% of their eligible earnings toward the semi-annual purchase of our common stock. The ESPP is qualified under Section 423 of the Internal Revenue Code. The employee's purchase price is derived from a formula based on the closing price of the common stock on the first day of the offering period versus the closing price on the date of purchase (or, if not a trading day, on the immediately preceding trading day).

The offering period (or length of the look-back period) under the ESPP has a duration of six months, and the purchase price with respect to each offering period beginning on or after such date is, until otherwise amended, equal to 85% of the lesser of (i) the fair market value of our common stock at the commencement of the applicable six-month offering period or (ii) the fair market value of our common stock on the purchase date. We estimate the fair value of purchase rights under the ESPP using a Black-Scholes model.

The fair value of each purchase right under the ESPP was estimated on the date of grant using the Black-Scholes model and the straight-line attribution approach with the following weighted-average assumptions:

	Three months March 3		Nine months March 3	
	2019	2019 2018		2018
Stock purchase plan:				
Expected stock price volatility	36.3%	31.5%	33.2%	28.7%
Risk-free interest rate	2.4%	1.3%	2.1%	1.1%
Dividend yield	3.3%	2.4%	3.1%	2.5%
Expected life (in years)	0.5	0.5	0.5	0.5

The following table shows the tax benefits realized by us in connection with the disqualifying dispositions of shares purchased under the ESPP and the weighted-average fair value per share for the indicated periods:

	Three months ended March 31,					Nine mon Mare	ths end		
(In thousands, except for weighted-average fair value per share)	2019			2018		2019	19 20		
Total cash received from employees for the issuance of shares under the ESPP	\$	_	\$		\$	20,556	\$	20,579	
Number of shares purchased by employees through the ESPP		_		_		270		264	
Tax benefits realized by us in connection with the disqualifying dispositions of shares purchased under the ESPP	\$	444	\$	787	\$	1,047	\$	1,681	
Weighted-average fair value per share based on Black-Scholes model	\$	21.25	\$	23.61	\$	21.67	\$	21.89	

The ESPP shares are replenished annually on the first day of each fiscal year by virtue of an evergreen provision. The provision allows for share replenishment equal to the lesser of 2.0 million shares or the number of shares which we estimate will be required to be issued under the ESPP during the forthcoming fiscal year. As oMarch 31, 2019, a total of 2.4 million shares were reserved and available for issuance under the ESPP.

# Quarterly cash dividends

On January 31, 2019, our Board of Directors declared a regular quarterly cash dividend of \$0.75 per share on the outstanding shares of our common stock, which was paid on March 1, 2019 to the stockholders of record as of the close of business on February 15, 2019. The total amount of regular quarterly cash dividends and dividend equivalents paid during the three months ended March 31, 2019 and 2018 was \$113.6 million and \$92.1 million, respectively. The total amount of regular quarterly cash dividends and dividend equivalents paid by us during the nine months ended March 31, 2019 and 2018 was \$348.0 million and \$278.8 million, respectively. The amount of accrued dividend equivalents payable for regular quarterly cash dividends on unvested RSUs with dividend equivalent rights as of March 31, 2019 and June 30, 2018 was \$6.5 million, respectively. These amounts will be paid upon vesting of the underlying RSUs.

# Special cash dividend

On November 19, 2014, our Board of Directors declared a special cash dividend of \$16.50 per share on our outstanding common stock. The declaration and payment of the special cash dividend was part of our leveraged recapitalization transaction under which the special cash dividend was financed through a combination of existing cash and proceeds from the debt financing disclosed in Note 8 "Debt" that was completed during the three months ended December 31, 2014. The total amount of the special cash dividend accrued by us at the declaration date was substantially paid out during the three months ended December 31, 2014, except for the aggregate special cash dividend of \$43.0 million that was accrued for the unvested RSUs and to be paid when such underlying unvested RSUs vest. During the second quarter of fiscal 2019, all of the special cash dividends accrued with respect to outstanding RSUs were vested and paid in full. During the nine months ended March 31, 2019 and 2018, the total special cash dividends paid with respect to vested RSUs were \$2.9 million and \$6.3 million, respectively. For details of the special cash dividend, refer to Note 8 "Equity and Long-Term Incentive Compensation Plans," of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

# Non-controlling Interest

We have consolidated the results of Orbotech LT Solar, LLC ("OLTS") and Orbograph Ltd. ("Orbograph"), in which we own approximately84% and 94% of the outstanding equity interest, respectively. OLTS is engaged in the research, development and marketing of products for the deposition of thin film coating of various materials on crystalline silicon photovoltaic wafers for solar energy panels through plasma-enhanced chemical vapor deposition ("PECVD"). Orbograph is engaged in the development and marketing of character recognition solutions to banks, financial and other payment processing institutions and healthcare providers.

Additionally, we have consolidated the results of PixCell, an Israeli company developing diagnostic equipment for point-of-care hematology applications of which we own approximately 52% of the outstanding equity interest and are entitled to appoint the majority of this company's directors.

# NOTE 10 - STOCK REPURCHASE PROGRAM

Our Board of Directors has authorized a program which permits us to repurchase up to \$2.00 billion of our common stock, reflecting an increase from \$1.00 billion upon the close of the Orbotech Acquisition. For additional details, refer to Note 1, "Basis of Presentation". The intent of this program is to offset the dilution from our equity incentive plans, employee stock purchase plan, the issuance of shares in the Orbotech Acquisition, as well as to return excess cash to our stockholders. Subject to market conditions, applicable legal requirements and other factors, the repurchases were made in the open market in compliance with applicable securities laws, including the Securities Exchange Act of 1934 and the rules promulgated thereunder, such as Rule 10b-18 and Rule 10b5-1. This stock repurchase program has no expiration date and may be suspended at any time. As of March 31, 2019, an aggregate of approximately \$1.21 billion was available for repurchase under our stock repurchase program.

Share repurchases for the indicated periods (based on the trade date of the applicable repurchase) were as follows:

		Three mo Mar	ded		ıded			
(In thousands)		2019	2018 2019				2018	
Number of shares of common stock repurchased	_	1,770		796		7,107		1,618
Total cost of repurchases	\$	206,017	\$	83,435	\$	756,204	\$	165,078

As of March 31, 2019, we had repurchased 0.1 million shares for \$6.0 million, which repurchases had not settled prior to March 31, 2019. The amount was recorded as a component of other current liabilities for the period presented.

# NOTE 11 - NET INCOME (LOSS) PER SHARE

Basic net income (loss) per share is calculated by dividing net income (loss) available to common stockholders by the weighted-average number of common shares outstanding during the period. Diluted net income (loss) per share is calculated by using the weighted-average number of common shares outstanding during the period, increased to include the number of additional shares of common stock that would have been outstanding if the shares of common stock underlying our outstanding dilutive restricted stock units had been issued. The dilutive effect of outstanding restricted stock units is reflected in diluted net income (loss) per share by application of the treasury stock method.

The following table sets forth the computation of basic and diluted net income per share attributable to KLA-Tencor

	Three months ended March 31,					Nine mor Mar	ths ended ch 31,		
(In thousands, except per share amounts)	2019 2013			2018		2019		2018	
Numerator:					· · ·				
Net income attributable to KLA-Tencor	\$	192,728	\$	306,881	\$	957,772	\$	453,498	
Denominator:									
Weighted-average shares-basic, excluding unvested restricted stock units		156,349		156,221		154,561		156,547	
Effect of dilutive restricted stock units and options		833	_	980		749		992	
Weighted-average shares-diluted		157,182		157,201		155,310		157,539	
Basic net income per share attributable to KLA-Tencor	\$	1.23	\$	1.96	\$	6.20	\$	2.90	
Diluted net income per share attributable to KLA-Tencor	\$	1.23	\$	1.95	\$	6.17	\$	2.88	
Anti-dilutive securities excluded from the computation of diluted net income per share		100		_		313		2	

# NOTE 12 – INCOME TAXES

The following table provides details of income taxes:

	Three months ended March 31,					Nine months ended March 31,				
(Dollar amounts in thousands)	2019			2018	2019			2018		
Income before income taxes	\$	221,390	\$	365,983	\$	1,064,921	\$	1,049,442		
Provision for income taxes	\$	28,745	\$	59,102	\$	107,232	\$	595,944		
Effective tax rate		13.0%		13.0% 16.1%		10.1%	56.8%			

Our effective tax rate is lower than the U.S. federal statutory rate primarily due to the proportion of earnings generated in jurisdictions with tax rates lower than the U.S. statutory rate.

During the three months ended March 31, 2019, we completed the acquisition of Orbotech Ltd. As a result of the Orbotech acquisition, we recorded\$19.8 million of net deferred tax liabilities primarily on the excess of book basis over the tax basis of acquired intangible assets and undistributed earnings in certain foreign subsidiaries. Adjustments to deferred taxes may be required when the purchase price allocation is finalized within the measurement period.

The following table summarizes the changes to our gross unrecognized tax benefits for the three months ended March 31, 2019:

(Dollar amounts in thousands)	cognized Tax Benefits
Balance on December 31, 2018	\$ 69,779
Addition related to acquisitions	61,483
Addition for tax positions related to current year	10,935
Addition for tax positions related to prior years	1,273
Reduction for tax positions related to prior years	 (10,144)
Balance on March 31, 2019	 133,326

In the normal course of business, we are subject to examination by tax authorities throughout the world. We are under United States federal income tax examination for the fiscal year ended June 30, 2016. We are subject to state income tax examinations for all years beginning from the fiscal year endedJune 30, 2014. We are also subject to examinations in other major foreign jurisdictions.

In May 2017, Orbotech received an assessment from the Israel Tax Authority ("ITA") with respect to its fiscal years 2012 through 2014 (the "Assessment", and the "Audit Period", respectively), for an aggregate amount of tax against it, after offsetting all NOLs for tax purposes available through the end of 2014, of approximately NIS 218.0 million (approximately \$65.0 million as of March 31, 2019), which amount includes related interest and linkage differentials to the Israeli consumer price index (as of date of the Assessment). We believe our recorded unrecognized tax benefits are sufficient to cover the resolution of the Assessment.

On August 31, 2018, Orbotech filed an objection in respect of the tax assessment (the "Objection"). Orbotech is now in the process of the second stage, in which the claims raised by it in the Objection are examined by different personnel at the ITA. In addition, the ITA can examine additional items and may assess additional amounts in the second stage. The second stage must be completed within one year of when the Objection was filed.

In connection with the above, there is an ongoing criminal investigation in Israel against Orbotech, which became our wholly owned subsidiary as of the acquisition date, certain of its employees and its tax consultant. On April 11, 2018, Orbotech received a "suspect notification letter" (dated March 28, 2018) from the Tel Aviv District Attorney's Office (Fiscal and Financial). In the letter, it was noted that the investigation file was transferred from the Assessment Investigation Officer to the District Attorney's Office. The letter further states that the District Attorney's Office has not yet made a decision regarding submission of an indictment against Orbotech; and that if after studying the case, a decision is made to consider prosecuting Orbotech will receive an additional letter, and within 30 days, Orbotech may present its arguments to the District Attorney's Office as to why it should not be indicted. To date, neither we nor Orbotech has received such an additional letter or any other correspondence or contact from the District Attorney's Office. We will continue to monitor the progress of the District Attorney's Office investigation, however, cannot anticipate when the review of the case will be completed and what will be the results thereof. We intend to cooperate with the District Attorney's Office to enable them to conclude their investigation.

It is possible that certain examinations may be concluded in the next twelve months. We believe that we may recognize up tc\$41.5 million of our existing unrecognized tax benefits within the next twelve months as a result of the lapse of statutes of limitations and the resolution of examinations with various tax authorities.

### NOTE 13 – LITIGATION AND OTHER LEGAL MATTERS

We are named from time to time as a party to lawsuits and other types of legal proceedings and claims in the normal course of our business. Actions filed against us include commercial, intellectual property, customer, and labor and employment related claims, including complaints of alleged wrongful termination and potential class action lawsuits regarding alleged violations of federal and state wage and hour and other laws. In general, legal proceedings and claims, regardless of their merit, and associated internal investigations (especially those relating to intellectual property or confidential information disputes) are often expensive to prosecute, defend or conduct and may divert management's attention and other company resources. Moreover, the results of legal proceedings are difficult to predict, and the costs incurred in litigation can be substantial, regardless of outcome. We believe the amounts provided in our condensed consolidated financial statements are adequate in light of the probable and estimated liabilities. However, because such matters are subject to many uncertainties, the ultimate outcomes are not predictable, and there can be no assurances that the actual amounts required to satisfy alleged liabilities from the matters described above will not exceed the amounts reflected in our condensed consolidated financial statements or will not have a material adverse effect on our results of operations, financial condition or cash flows.

# NOTE 14 – COMMITMENTS AND CONTINGENCIES

**Factoring.** We have agreements (referred to as "factoring agreements") with financial institutions to sell certain of our trade receivables and promissory notes from customers without recourse. We do not believe we are at risk for any material losses as a result of these agreements. In addition, we periodically sell certain letters of credit ("LCs"), without recourse, received from customers in payment for goods and services.

The following table shows total receivables sold under factoring agreements and proceeds from sales of LCs for the indicated periods:

	 Three mo	nths en ch 31,	ded	 Nine moi Mar	ths end	ded
(In thousands)	2019		2018	2019		2018
Receivables sold under factoring agreements	\$ 48,243	\$	69,390	\$ 149,597	\$	148,523
Proceeds from sales of LCs	\$ 40,303	\$	_	\$ 59,534	\$	5,571

Factoring and LC fees for the sale of certain trade receivables were recorded in other expense (income), net and were not material for the periods presented.

Leases. We lease certain of our facilities, autos and equipments under arrangements that are accounted for as operating leases. Facilities rent expense was 3.1 million and \$2.7 million for the three months ended March 31, 2019 and 2018, respectively and was \$7.8 million and \$7.7 million for the nine months ended March 31, 2019 and 2018, respectively

The following is a schedule of expected operating lease payments:

Fiscal year ending June 30,	 Amount (In thousands)
2019 (remaining 3 months)	\$ 7,360
2020	26,427
2021	18,394
2022	12,845
2023	7,668
2024 and thereafter	14,574
Total minimum lease payments	\$ 87,268

**Purchase Commitments.** We maintain commitments to purchase inventory from our suppliers as well as goods, services, and other assets in the ordinary course of business. Our liability under these purchase commitments is generally restricted to a forecasted time-horizon as mutually agreed upon between the parties. This forecasted time-horizon can vary among different suppliers. Our estimate of our significant purchase commitments for primarily material, services, supplies and asset purchases is approximately \$603.3 million as of March 31, 2019, which are primarily due within the next12 months.

Actual expenditures will vary based upon the volume of the transactions and length of contractual service provided. In addition, the amounts paid under these arrangements may be less in the event that the arrangements are renegotiated or canceled. Certain agreements provide for potential cancellation penalties.

Cash Long-Term Incentive Plan. As of March 31, 2019, we have committed \$130.1 million for future payment obligations under our Cash LTI Plan. The calculation of compensation expense related to the Cash LTI Plan includes estimated forfeiture rate assumptions. Cash LTI awards issued to employees under the Cash LTI Plan vest in three or four equal installments, with one-third or one-fourth of the aggregate amount of the Cash LTI award vesting on each anniversary of the grant date over a three or four-year period. In order to receive payments under a Cash LTI award, participants must remain employed by us as of the applicable award vesting date.

Guarantees and Contingencies. We maintain guarantee arrangements available through various financial institutions for up to \$45.1 million, of which \$38.7 million had been issued as of March 31, 2019, primarily to fund guarantees to customs authorities for value-added tax ("VAT") and other operating requirements of our subsidiaries in Europe, Israel and Asia.

Indemnification Obligations. Subject to certain limitations, we are obligated to indemnify our current and former directors, officers and employees with respect to certain litigation matters and investigations that arise in connection with their service to us. These obligations arise under the terms of our certificate of incorporation, our bylaws, applicable contracts, and Delaware and California law. The obligation to indemnify generally means that we are required to pay or reimburse the individuals' reasonable legal expenses and possibly damages and other liabilities incurred in connection with these matters. For example, we have paid or reimbursed legal expenses incurred in connection with the investigation of our historical stock option practices and the related litigation and government inquiries by several of our current and former directors, officers and employees. Although the maximum potential amount of future payments we could be required to make under the indemnification obligations generally described in this paragraph is theoretically unlimited, we believe the fair value of this liability, to the extent estimable, is appropriately considered within the reserve we have established for currently pending legal proceedings.

We are a party to a variety of agreements pursuant to which we may be obligated to indemnify the other party with respect to certain matters. Typically, these obligations arise in connection with contracts and license agreements or the sale of assets, under which we customarily agrees to hold the other party harmless against losses arising from, or provides customers with other remedies to protect against, bodily injury or damage to personal property caused by our products, non-compliance with our product performance specifications, infringement by our products of third-party intellectual property rights and a breach of warranties, representations and covenants related to matters such as title to assets sold, validity of certain intellectual property rights, non-infringement of third-party rights, and certain income tax-related matters. In each of these circumstances, payment by us is typically subject to the other party making a claim to and cooperating with us pursuant to the procedures specified in the particular contract. This usually allows us to challenge the other party's claims or, in case of breach of intellectual property representations or covenants, to control the defense or settlement of any third-party claims brought against the other party. Further, our obligations under these agreements may be limited in terms of amounts, activity (typically at our option to replace or correct the products or terminate the agreement with a refund to the other party), and duration. In some instances, we may have recourse against third parties and/or insurance covering certain payments made by us.

In addition, we may in limited circumstances enter into agreements that contain customer-specific commitments on pricing, tool reliability, spare parts stocking levels, response time and other commitments. Furthermore, we may give these customers limited audit or inspection rights to enable them to confirm that we are complying with these commitments. If a customer elects to exercise its audit or inspection rights, we may be required to expend significant resources to support the audit or inspection, as well as to defend or settle any dispute with a customer that could potentially arise out of such audit or inspection. To date, we have made no significant accruals in our condensed consolidated financial statements for this contingency. While we have not in the past incurred significant expenses for resolving disputes regarding these types of commitments, we cannot make any assurance that it will not incur any such liabilities in the future.

It is not possible to predict the maximum potential amount of future payments under these or similar agreements due to the conditional nature of our obligations and the unique facts and circumstances involved in each particular agreement. Historically, payments made by us under these agreements have not had a material effect on our business, financial condition, results of operations or cash flows.

### NOTE 15 - DERIVATIVE INSTRUMENTS AND HEDGING ACTIVITIES

The authoritative guidance requires companies to recognize all derivative instruments and hedging activities, including foreign currency exchange contracts and interest rate lock agreements, (collectively "derivatives") as either assets or liabilities at fair value on the condensed consolidated balance sheets. In accordance with the accounting guidance, we designate foreign currency exchange contracts and interest rate lock agreements as cash flow hedges of certain forecasted foreign currency denominated sales, purchase and spending transactions, and the benchmark interest rate of the corresponding debt financing, respectively.

Our foreign subsidiaries operate and sell our products in various global markets. As a result, we are exposed to risks relating to changes in foreign currency exchange rates. We utilize foreign currency forward exchange contracts and option contracts to hedge against future movements in foreign exchange rates that affect certain existing and forecasted foreign currency denominated sales and purchase transactions, such as the Japanese yen, the euro, the pound sterling and the Israeli new shekel. We routinely hedge our exposures to certain foreign currencies with various financial institutions in an effort to minimize the impact of certain currency exchange rate fluctuations. These currency forward exchange contracts and options, designated as cash flow hedges, generally have maturities of less than 18 months. Cash flow hedges are evaluated for effectiveness monthly, based on changes in total fair value of the derivatives. If a financial counterparty to any of our hedging arrangements experiences financial difficulties or is otherwise unable to honor the terms of the foreign currency hedge, we may experience material losses.

In October 2014, we entered into a series of forward contracts ("Rate Lock Agreements") to lock the benchmark rate on a portion of the Senior Notes. The Rate Lock Agreements were matured and terminated in the second quarter of the fiscal year ended June 30, 2015 and we recorded the fair value of \$7.5 million as a gain within accumulated other comprehensive income (loss) ("OCI") as of December 31, 2014. As of March 31, 2019, the unamortized portion of the fair value of the forward contracts for the Rate Lock Agreements was \$4.2 million. For more details, refer to Note 16, "Derivative Instruments and Hedging Activities" of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

During the three months ended June 30, 2018, we entered into a series of forward contracts (the "2018 Rate Lock Agreements") to lock the benchmark interest rate prior to expected debt issuances. The objective of the 2018 Rate Lock Agreements was to hedge the risk associated with the variability in interest rates due to the changes in the benchmark rate leading up to the closing of the intended financing on the notional amount being hedged. The 2018 Rate Lock Agreement had a notional amount of \$500.0 million in aggregate, which matured and terminated in the third quarter of fiscal year ending June 30, 2019 and we recorded the fair value of \$13.6 million as a loss within OCI. As of March 31, 2019, the unamortized portion of the fair value of the 2018 Rate Lock Agreements was \$13.5 million.

For derivatives that are designated and qualify as cash flow hedges, the effective portion of the gains or losses is reported in OCI and reclassified into earnings in the same period or periods during which the hedged transaction affects earnings. Prior to adopting the new accounting guidance for hedge accounting, time value was excluded from the assessment of effectiveness for derivatives designated as cash flow hedges. Time value was amortized on a mark-to-market basis and recognized in earnings over the life of the derivative contract. For derivative contracts executed after adopting the new accounting guidance, the election to include time value for the assessment of effectiveness is made on all forward contracts designated as cash flow hedges. The change in fair value of the derivative are recorded in OCI until the hedged item is recognized in earnings. The assessment of effectiveness of options contracts designated as cash flow hedges continue to exclude time value after adopting the new accounting guidance. The initial value of the component excluded from the assessment of effectiveness are recognized in earnings over the life of the derivative contract. Any difference between change in the fair value of the excluded components and the amounts recognized in earnings are recorded in OCI.

For derivatives that are not designated as cash flow hedges, gains and losses are recognized in other expense (income), net. We use foreign currency forward contracts to hedge certain foreign currency denominated assets or liabilities. The gains and losses on these derivative instruments are largely offset by the changes in the fair value of the assets or liabilities being hedged.

## Derivatives in Cash Flow Hedging Relationships: Foreign Exchange and Interest Rate Contracts

The gains (losses) on derivatives in cash flow hedging relationships recognized in OCI for the indicated periods were as follows:

		Three mor	ıded	Nine mon	ths en	ded	
		Marc		 Marc	ch 31,		
(In thousands)		2019		2018	2019		2018
<b>Derivatives Designated as Hedging Instruments:</b>							
Rate lock agreements:							
Amounts included in the assessment of effectiveness	\$	(3,252)	\$	_	\$ (8,649)	\$	_
Foreign exchange contracts:							
Amounts included in the assessment of effectiveness	\$	1,925	\$	(581)	\$ 2,163	\$	560
Amounts excluded from the assessment of effectiveness	\$	(53)	\$	_	\$ (82)	\$	_
40	0						

The locations and amounts of designated and non-designated derivative's gains and losses reported in the condensed consolidated statements of operations for the indicated periods were as follows:

		Three months ended March 31,							Three months ended March 31,							
				20	19							2	018			
(In thousands)		Revenue		Cost of revenues		Interest expense		her expense icome), net				Cost of revenues		Interest expense		er expense come), net
Total amounts presented in the condensed consolidated statement of operations in which the effects of cash flow hedges are recorded	\$	1,097,311	\$	486,945	\$	31,187	\$	(9,282)	\$	1,021,294	\$	368,356	\$	28,119	\$	(7,640)
Gains (losses) on Derivatives Design	ated	as Hedging I	nstru	ments:												
Rate lock agreements:																
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$	_	\$	_	\$	150	\$	_	\$	_	\$	_	\$	_	\$	_
Amount of gains (losses) reclassified from accumulated OCI to earnings as a result that a forecasted transaction is no longer probable of occurring	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_
Foreign exchange contracts:																
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$	655	\$	(17)	\$	_	\$	158	\$	(65)	\$	570	\$	189	\$	_
Amount excluded from the assessment of effectiveness recognized in earnings based on an amortization approach	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_
Amount excluded from the assessment of effectiveness	\$	_	\$	_	\$	_	\$	(121)	\$	_	\$	_	\$	_	\$	(374)
Gains (losses) on Derivatives Not De	sign	ated as Hedgi	ng In	struments:												
Amount of gains (losses) recognized in earnings	\$	_	\$	_	\$	_	\$	513	\$	_	\$	_	\$	_	\$	(7,484)
						41										

			Nine months ended March 31,							Nine months ended March 31,								
				20	19							20	018					
(In thousands)		Revenue		Cost of revenues		Interest expense		her income pense), net		Revenue		Cost of revenues		Interest expense		her income pense), net		
Total amounts presented in the condensed consolidated statement of operations in which the effects of cash flow hedges are recorded	\$	3,310,469	\$	1,276,592	\$	84,087	\$	(28,535)	\$	2,966,697	\$	1,068,475	\$	86,067	\$	(19,847)		
Gains (losses) on Derivatives Design	ated	l as Hedging I	nstru	ments:														
Rate lock agreements:																		
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$	_	\$	_	\$	527	\$	_	\$	_	\$	_	\$	_	\$	_		
Amount of gains (losses) reclassified from accumulated OCI to earnings as a result that a forecasted transaction is no longer probable of occurring	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_		
Foreign exchange contracts:																		
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$	3,343	\$	(309)	\$	_	\$	158	\$	1,300	\$	1,908	\$	567	\$	_		
Amount excluded from the assessment of effectiveness recognized in earnings based on an amortization approach	\$	80	\$	(8)	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_		
Amount excluded from the assessment of effectiveness	\$	_	\$	_	\$	_	\$	(208)	\$	_	\$	_	\$	_	\$	(603)		
Gains (losses) on Derivatives Not De	sigr	ated as Hedgi	ng In	struments:														
Amount of gains (losses) recognized in earnings	\$	_	\$	_	\$	_	\$	576	\$	_	\$	_	\$	_	\$	(3,808)		

The U.S. dollar equivalent of all outstanding notional amounts of foreign currency hedge contracts, with maximum remaining maturities of approximatelyten months as of March 31, 2019 and June 30, 2018, were as follows:

(In thousands) Cash flow hedge contracts - foreign currency		Ma	As of rch 31, 2019	 As of June 30, 2018
Purchase		\$	66,713	\$ 8,116
Sell		\$	164,955	\$ 115,032
Other foreign currency hedge contracts				
Purchase		\$	231,765	\$ 130,442
Sell		\$	289,502	\$ 154,442
	40			

The locations and fair value of our derivatives reported in our Condensed Consolidated Balance Sheets as of the dates indicated below were as follows:

	Asset Derivatives						Liability Deriva			
	Balance Sheet Location		As of ch 31, 2019	Jur	As of ne 30, 2018	Balance Sheet Location		of 31, 2019	Jun	As of e 30, 2018
(In thousands)			Fair V	Value				Fair '	Value	
Derivatives designated as hedging instruments										
Rate lock contracts	Other current assets	\$	_	\$	219	Other current liabilities	\$	_	\$	5,158
Foreign exchange contracts	Other current assets		1,957		3,259	Other current liabilities		254		312
Total derivatives designated as hedging instruments			1,957		3,478			254		5,470
Derivatives not designated as hedging instruments				'						
Foreign exchange contracts	Other current assets		2,289		1,907	Other current liabilities		1,562		1,358
Total derivatives not designated as hedging instruments			2,289	'	1,907			1,562		1,358
Total derivatives		\$	4,246	\$	5,385		\$	1,816	\$	6,828

The changes in OCI, before taxes, related to derivatives for the indicated periods were as follows:

	Three months ended March 31,							ended 1,	
(In thousands)	2019 2018					2019		2018	
Beginning balance	\$	(5,615)	\$	6,186	\$	2,346	\$	8,126	
Amount reclassified to earnings		(946)		(694)		(3,719)		(3,775)	
Net change in unrealized gains or losses		(1,379)		(581)		(6,567)		560	
Ending balance	\$	(7,940)	\$	4,911	\$	(7,940)	\$	4,911	

# Offsetting of Derivative Assets and Liabilities

We present derivatives at gross fair values in the Condensed Consolidated Balance Sheets. We have entered into arrangements with each of our counterparties, which reduce credit risk by permitting net settlement of transactions with the same counterparty under certain conditions. The information related to the offsetting arrangements for the periods indicated was as follows (in thousands):

periods mareated was as for	o o (III t	no asanas).									
As of March 31, 2019								s Amounts of Deri Condensed Consoli	 		
Description		s Amounts of erivatives	Offset in	unts of Derivatives the Condensed ed Balance Sheets	Pr Conde	nount of Derivatives resented in the nsed Consolidated alance Sheets	1	Financial Instruments	n Collateral Received	N	let Amount
Derivatives - Assets	\$	4,246	\$	_	\$	4,246	\$	(1,209)	\$ 	\$	3,037
Derivatives - Liabilities	\$	(1,816)	\$	_	\$	(1,816)	\$	1,209	\$ _	\$	(607)
As of June 30, 2018								ss Amounts of Der Condensed Consoli			
Description		s Amounts of erivatives	Offset in	unts of Derivatives the Condensed ed Balance Sheets	Pr Conde	Net Amount of Derivatives Presented in the Condensed Consolidated Balance Sheets		Financial Instruments	n Collateral Received	Ŋ	let Amount
Derivatives - Assets	\$	5,385	\$	_	\$	5,385	\$	(1,888)	\$ _	\$	3,497
Derivatives - Liabilities	\$	(6,828)	\$	_	\$	(6,828)	\$	1,888	\$ _	\$	(4,940)

# NOTE 16 - RELATED PARTY TRANSACTIONS

During the three and nine months ended March 31, 2019 and 2018, we purchased from, or sold to, several entities, where one or more of our executive officers or members of our Board of Directors, or their immediate family members, were, during the periods presented, an executive officer or a board member of a subsidiary, including Citrix Systems, Inc., Integrated Device Technology, Inc., Keysight Technologies, Inc., MetLife Insurance K.K., NetApp, Inc., and Proofpoint, Inc. The following table provides the transactions with these parties for the indicated periods (for the portion of such period that they were considered related):

	 Three mor	nths er ch 31,	ıded	Nine mor Mar	ded	
(In thousands)	 2019			2019		2018
Total revenues	\$ 1,972	\$	6	\$ 1,985	\$	463
Total purchases(1)	\$ 354	\$	594	\$ 2,560	\$	1,840

(1) During the three months ended June 30, 2018, we acquired a product line from Keysight Technologies, Inc. ("Keysight") and entered into a transition services agreement pursuant to which Keysight provides certain manufacturing services to us. For additional details refer to Note 6, "Business Combinations". We recorded the manufacturing services fees under the transition services agreement with Keysight within cost of revenues, which was immaterial for the three and nine months ended March 31, 2019.

Our receivable balances from these parties were \$1.9 million as of March 31, 2019 and immaterial for June 30, 2018. Our payable balance from these parties was immaterial at March 31, 2019 and June 30, 2018.

#### NOTE 17 - SEGMENT REPORTING AND GEOGRAPHIC INFORMATION

While we operate our business in multiple operating segments, we have onlyone reportable segment. Operating segments are defined as components of an enterprise about which separate financial information is evaluated regularly by the chief operating decision maker in deciding how to allocate resources and in assessing performance.

Our chief operating decision maker, who is our Chief Executive Officer, is in the process of completing an assessment of our reporting structure as of the filing date of this Quarterly Report on Form 10-Q. We are in the process of determining the related impacts to our determination of operating and reportable segments. Accordingly, the disclosures for the three and nine months ending March 31, 2019 reflects the current segment reporting disclosures of our operations with Orbotech presented as a separate component, where noted. We currently expect to complete our assessment of our segment reporting structure within the fourth quarter.

All operating segments have been aggregated due to their inter-dependencies, commonality of long-term economic characteristics, products and services, the production processes, class of customer and distribution processes. Our service products are an extension of the system product portfolio and provide customers with spare parts and fab management services (including system preventive maintenance and optimization services) to improve yield, increase production uptime and throughput, and lower the cost of ownership. Since we operate in one reportable segment, all financial segment information required by the authoritative guidance can be found in the condensed consolidated financial statements.

Our significant operations outside the United States include manufacturing facilities in China, Germany, Israel and Singapore and sales, marketing and service offices in Japan, the rest of the Asia Pacific region and Europe. For geographical revenue reporting, revenues are attributed to the geographic location in which the customer is located. Long-lived assets consist of land, property and equipment, net and are attributed to the geographic region in which they are located.

The following is a summary of revenues by geographic region, based on ship-to location, for the indicated periods:

	T	Three months ended March 31,						Nine months ended March 31,						
(Dollar amounts in thousands)		2019				2018			2019			2018		
Revenues:														
Taiwan	\$	275,507	25	<b>6</b>	\$	156,428	15%	\$	796,478	24%	\$	511,778	17%	
China		206,164	19	6		143,761	14%		816,176	25%		378,560	13%	
Korea		196,490	18	6		314,062	31%		476,959	14%		858,924	29%	
North America		156,824	14	6		113,477	11%		409,066	12%		391,769	13%	
Japan		146,069	13	6		199,066	19%		461,930	14%		500,263	17%	
Europe and Israel		76,054	7	6		53,043	6%		228,341	7%		218,706	7%	
Rest of Asia		40,203	4	6		41,457	4%		121,519	4%		106,697	4%	
Total	\$	1,097,311	100	<b>%</b>	\$	1,021,294	100%	\$	3,310,469	100%	\$	2,966,697	100%	

The following is a summary of revenues by major products and for Orbotech in total for the indicated periods (as a percentage of total revenues):

 Three months ended March 31,						Nine months ended March 31,							
2019			2018			2019			2018				
\$ 334,070	30%	\$	486,662	48%	\$	1,312,261	40%	\$	1,276,666	43%			
285,815	26%		251,253	25%		884,021	27%		820,471	28%			
287,116	26%		262,389	26%		855,309	26%		796,692	27%			
161,344	15%		_	-%		161,344	5%		_	-%			
28,966	3 %		20,990	1%		97,534	2%		72,868	2%			
\$ 1,097,311	100%	\$	1,021,294	100%	\$	3,310,469	100%	\$	2,966,697	100%			
\$	\$ 334,070 285,815 287,116 161,344 28,966	\$ 334,070 30% 285,815 26% 287,116 26% 161,344 15% 28,966 3%	\$ 334,070 30% \$ 285,815 26% 287,116 26% 161,344 15% 28,966 3%	2019     2018       \$ 334,070     30%     \$ 486,662       285,815     26%     251,253       287,116     26%     262,389       161,344     15%     —       28,966     3%     20,990	2019     2018       \$ 334,070     30% \$ 486,662     48%       285,815     26%     251,253     25%       287,116     26%     262,389     26%       161,344     15%     —     —%       28,966     3%     20,990     1%	2019     2018       \$ 334,070     30% \$ 486,662     48% \$       285,815     26%     251,253     25%       287,116     26%     262,389     26%       161,344     15%     —     —%       28,966     3%     20,990     1%	2019         2018         2019           \$ 334,070         30% \$ 486,662         48% \$ 1,312,261           285,815         26% 251,253         25% 884,021           287,116         26% 262,389         26% 855,309           161,344         15% — —% 161,344           28,966         3% 20,990         1% 97,534	2019         2018         2019           \$ 334,070         30% \$ 486,662         48% \$ 1,312,261         40%           285,815         26%         251,253         25%         884,021         27%           287,116         26%         262,389         26%         855,309         26%           161,344         15%         —         —%         161,344         5%           28,966         3%         20,990         1%         97,534         2%	2019         2018         2019           \$ 334,070         30% \$ 486,662         48% \$ 1,312,261         40% \$ 285,815           285,815         26%         251,253         25%         884,021         27%           287,116         26%         262,389         26%         855,309         26%           161,344         15%         —         —%         161,344         5%           28,966         3%         20,990         1%         97,534         2%	2019         2018         2019         2018           \$ 334,070         30% \$ 486,662         48% \$ 1,312,261         40% \$ 1,276,666           285,815         26% 251,253         25% 884,021         27% 820,471           287,116         26% 262,389         26% 855,309         26% 796,692           161,344         15% —         —         —           28,966         3% 20,990         1% 97,534         2% 72,868			

(1) The Global Service and Support revenues include service revenues as presented in the Condensed Consolidated Statements of Operations as well as certain product revenues, primarily revenues from our K-T Pro business.

In the three months ended March 31, 2019, one customer accounted for approximately 19% of total revenues. In the three months ended March 31, 2018, two customers accounted for approximately 22% and 11% of total revenues. In the nine months ended March 31, 2019, two customers accounted for approximately 15% and 11% of total revenues. In the nine months ended March 31, 2018, one customer accounted for approximately 22% of total revenues. One and three customers on an individual basis accounted for greater than 10% of net accounts receivables as of March 31, 2019 and June 30, 2018, respectively.

Long-lived assets by geographic region as of the dates indicated below were as follows:

(In thousands)	Mar	As of ch 31, 2019	Ju	As of ine 30, 2018
Long-lived assets:				
United States	\$	222,444	\$	187,352
Singapore		49,764		47,009
Israel		65,113		26,980
Europe		57,096		12,924
Rest of Asia		17,435		12,041
Total	\$	411,852	\$	286,306

# NOTE 18 – SUBSEQUENT EVENTS

On May 3, 2019, we announced that our Board of Directors had declared a quarterly cash dividend of 0.75 per share to be paid on June 4, 2019 to stockholders of record as of the close of business on May 15, 2019.

# ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

### SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This report contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. All statements other than statements of historical fact may be forward-looking statements. You can identify these and other forward-looking statements by the use of words such as "may," "will," "could," "would," "should," "expects," "plans," "anticipates," "relies," "believes," "estimates," "predicts," "intends," "potential," "continue," "thinks," "seeks," or the negative of such terms, or other comparable terminology. Forward-looking statements also include the assumptions underlying or relating to any of the foregoing statements. Such forward-looking statements include, among others, forecasts of the future results of our operations, including profitability; orders for our products and capital equipment generally; sales of semiconductors; the investments by our customers in advanced technologies and new materials; the allocation of capital spending by our customers (and, in particular, the percentage of spending that our customers allocate to process control); growth of revenue in the semiconductor industry, the semiconductor capital equipment industry and our business; technological trends in the semiconductor industry; future developments or trends in the global capital and financial markets; our future product offerings and product features; the success and market acceptance of new products; timing of shipment of backlog; our future product shipments and product and service revenues; our future gross margins; our future research and development expenses and selling, general and administrative expenses; our ability to successfully maintain cost discipline; international sales and operations; our ability to maintain or improve our existing competitive position; success of our product offerings; creation and funding of programs for research and development; attraction and retention of employees; results of our investment in leading edge technologies; the effects of hedging transactions; the effect of the sale of trade receivables and promissory notes from customers; our future effective income tax rate; our recognition of tax benefits; future payments of dividends to our stockholders; the completion of any acquisitions of third parties, or the technology or assets thereof; benefits received from any acquisitions and development of acquired technologies; sufficiency of our existing cash balance, investments, cash generated from operations and the unfunded portion of our revolving line of credit under a Credit Agreement (the "Credit Agreement") to meet our operating and working capital requirements, including debt service and payment thereof; future dividends, and stock repurchases; our compliance with the financial covenants under the Credit Agreement; the adoption of new accounting pronouncements including ASC 606; the tax liabilities resulting from the enactment of the Tax Cuts and Jobs Act; and our repayment of our outstanding indebtedness.

Our actual results may differ significantly from those projected in the forward-looking statements in this report. Factors that might cause or contribute to such differences include, but are not limited to, those discussed in Part II, Item 1A, "Risk Factors" in this report as well as in Item 1, "Business" and Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our Annual Report on Form 10-K for the year ended June 30, 2018, filed with the Securities and Exchange Commission on August 6, 2018. You should carefully review these risks and also review the risks described in other documents we file from time to time with the Securities and Exchange Commission. You are cautioned not to place undue reliance on these forward-looking statements, and we expressly assume no obligation and do not intend to update the forward-looking statements in this report after the date hereof.

### EXECUTIVE SUMMARY

We are a leading supplier of process control and yield management solutions for the semiconductor and related nanoelectronics industries. Our broad portfolio of inspection and metrology products, and related service, software and other offerings primarily supports integrated circuit ("IC" or "chip") manufacturers throughout the entire semiconductor fabrication process, from research and development to final volume production. We provide leading edge equipment, software and support that enable IC manufacturers to identify, resolve and manage significant advanced technology manufacturing process challenges and obtain higher finished product yields at lower overall cost. In addition to serving the semiconductor industry, we also provide a range of technology solutions to a number of other high technology industries, including advanced packaging, light emitting diode ("LED"), power devices, compound semiconductor, and data storage industries, as well as general materials research.

Our products and services are used by the vast majority of bare wafer, IC, lithography reticle ("reticle" or "mask") and hard disk drive manufacturers around the world. Our products, services and expertise are used by our customers to measure, detect, analyze and resolve critical product defects that arise in that environment in order to control nanometric level manufacturing processes.

Our revenues are driven largely by our customers' spending on capital equipment and related maintenance services necessary to support key transitions in their underlying product technologies, or to increase their production volumes in response to market demand or expansion plans. Our semiconductor customers generally operate in one or more of the three major semiconductor markets - memory, foundry and logic. All three of these markets are characterized by rapid technological changes and sudden shifts in end-user demand, which influence the level and pattern of our customers' spending on our products and services. Although capital spending in all three semiconductor markets has historically been very cyclical, the demand for more advanced and lower cost chips used in a growing number of consumer electronics, communications, data processing, and industrial and automotive products has resulted over the long term in a favorable demand environment for our process control and yield management solutions, particularly in the foundry and logic markets, which have higher levels of process control adoption than the memory market.

Through the acquisition of Orbotech, Ltd. ("Orbotech"), we have expended our reach in the electronics value chain to include technologically advanced, yield-enhancing and process-enabling solutions to address various manufacturing stages of Printed Circuit Boards ("PCB"), Flat Panel Displays ("FPD"), Specialty Semiconductor Devices ("SD") and other electronic components. The products include Automated Optical Inspection ("AOI"), Automated Optical Shaping ("AOS"), Direct Imaging ("DI"), additive printing, laser drilling, laser plotters, Computer aided manufacturing ("CAM") and engineering solutions for PCB and additional adjacent electronics component manufacturing, as well as AOI, test, repair and process monitoring systems for FPD manufacturing and vacuum process tools for etch, Physical Vapor Deposition ("PVD"), Molecular Vapor Deposition ("CVD") solutions for SD manufacturing.

In our newly acquired Orbotech business, consumer end markets have been experiencing a fundamental shift in technology complexity, driven primarily by the proliferation of high-end mobile devices and automotive devices, as well as by the demand for large area FPDs such as large-size LCD televisions and OLED displays. The shift towards 5G connectivity and the fast-paced growth of the Internet of Things ("IoT") services is expected to continue to further accelerate this shift as more devices become connected and dependent upon other electronic devices.

As a supplier to the global semiconductor, semiconductor-related and electronics industries, our customer base continues to become more highly concentrated over time, thereby increasing the potential impact of a sudden change in capital spending by a major customer on our revenues and profitability. As our customer base becomes increasingly more concentrated, large orders from a relatively limited number of customers account for a substantial portion of our sales, which potentially exposes us to more volatility for revenues and earnings. In the global semiconductor and electronics related industries, China is emerging as a major region for manufacturing of logic and memory chips, adding to its role as the world's largest consumer of ICs. Additionally, a significant portion of global FPD and PCB manufacturing has migrated to China. Government initiatives are propelling China to expand its domestic manufacturing capacity and attracting semiconductor manufacturers from Taiwan, Korea, Japan and the US. China is currently seen as an important long-term growth region for the semiconductor and electronics capital equipment sector. We are also subject to the cyclical capital spending that has historically characterized the semiconductor, semiconductor-related and electronics industries. The timing, length, intensity and volatility of the capacity-oriented capital spending cycles of our customers are unpredictable.

The semiconductor and electronics industries have also been characterized by constant technological innovation. Currently, there are multiple drivers for growth in the industry with increased demand for chips providing computation power and connectivity for Artificial Intelligence ("AI") applications and support for mobile devices at the leading edge of foundry and logic chip manufacturing. Qualification of early extreme ultraviolet ("EUV") lithography processes and equipment is driving growth at leading logic/foundry and dynamic random-access memory ("DRAM") manufacturers. Expansion of IoT together with increasing acceptance of advanced driver assistance systems ("ADAS") in anticipation of the introduction of autonomous cars have begun to accelerate legacy-node technology conversions and capacity expansions. Intertwined in these areas, spurred by data storage and connectivity needs, is the growth in demand for memory chips. On the other hand, higher design costs for the most advanced ICs could economically constrain leading-edge manufacturing technology customers to focus their resources on only the large technologically advanced products and applications. We believe that, over the long term, our customers will continue to invest in advanced technologies and new materials to enable smaller design rules and higher density applications that fuel demand for process control equipment, although the growth for such equipment may be adversely impacted by higher design costs for advanced ICs, reuse of installed products, and delays in production ramps by our customers in response to higher costs and technical challenges at more advanced technology nodes.

Additionally, current trends in smart mobile devices, 5G connectivity, automotive electronics, smart vehicles, flexible displays, AR/VR and wearable devices, high-performance computing, large size televisions and the IoT are expected to drive the need for production, inspection, test and repair solutions that are able to address the cutting-edge technology embedded in these types of electronic products.

The demand for our products and our revenue levels are driven by our customers' needs to solve the process challenges that they face as they adopt new technologies required to fabricate advanced ICs that are incorporated into sophisticated mobile devices. Our customers continuously seek to increase yields and enhance the efficiency of their manufacturing processes, including by improving their manufacturing, inspection, testing and repair capabilities.

Our view of the current wafer fab equipment demand climate is aligned with consensus industry analyst expectations for the calendar year 2019, which reflects a decline in capital equipment spending by memory customers. In contrast to the memory business, capital equipment spending by foundry and logic customers at the leading edge has begun to ramp, and the momentum is expected to continue in calendar year 2019. We have already seen our mix of business begin to shift toward increased purchases by logic and foundry customers as a percentage of total sales, and we expect spending from these customers to continue to remain strong. Because of a more diversified semiconductor device-end demand, and disciplined capacity planning by wafer fab equipment customers, we believe the long-term growth dynamics for the industry remain strong. While manufacturers of PCBs, FPDs, SDs and other electronic components create different products for diverse end-markets, they share similar production challenges in an increasingly competitive environment.

The following table sets forth some of our key quarterly unaudited financial information(1):

					T	hree	months ended					
(In thousands, except net income (loss) per share)	March 31, 2019	D	ecember 31, 2018	Se	ptember 30, 2018		June 30, 2018	March 31, 2018	D	ecember 31, 2017	Se	ptember 30, 2017
Total revenues	\$ 1,097,311	\$	1,119,898	\$	1,093,260	\$	1,070,004	\$ 1,021,294	\$	975,822	\$	969,581
Gross margin	\$ 610,366	\$	711,638	\$	711,873	\$	692,438	\$ 652,938	\$	628,820	\$	616,464
Net income (loss) attributable to KLA-Tencor <sup>(2)</sup>	\$ 192,728	\$	369,100	\$	395,944	\$	348,767	\$ 306,881	\$	(134,319)	\$	280,936
Diluted net income (loss) per share attributable to KLA-Tencor <sup>(3)</sup>	\$ 1.23	\$	2.42	\$	2.54	\$	2.22	\$ 1.95	\$	(0.86)	\$	1.78

- (1) On July 1, 2018, we adopted ASC 606 using the modified retrospective transition approach. Results for reporting periods beginning after June 30, 2018 are presented under ASC 606, while prior period amounts are not adjusted and continue to be reported in accordance with the previous revenue guidance in ASC 605.
- (2) Our net income (loss) decreased to a loss of \$134.3 million during the three months ended December 31, 2017, primarily as a result of the income tax effects from the enacted tax reform legislation through the Tax Cuts and Jobs Act, which was signed into law on December 22, 2017.
- (3) Diluted net income (loss) per share are computed independently for each of the quarters presented based on the weighted-average fully diluted shares outstanding for each quarter. Therefore, the sum of quarterly diluted net income (loss) per share information may not equal annual (or other multiple-quarter calculations of) diluted net income (loss) per share.

### Acquisition of Orbotech, Ltd.

On February 20, 2019, we completed the acquisition of Orbotech, Ltd. ("Orbotech") for total consideration of approximately\$3.26 billion. Orbotech's core business enables electronic device manufacturers to inspect, test and measure printed circuit boards and flat panel displays to verify their quality; pattern electronic circuitry on substrate and perform three-dimensional shaping of metalized circuits on multiple surfaces; and utilize advanced vacuum deposition and etching process in semiconductor device and semiconductor manufacturing and to perform laser drilling of electronic substrates. For additional details on the financial statement impacts of the Orbotech acquisition, refer to Note 6 "Business Combinations" to the condensed consolidated financial statements.

In addition, our Board of Directors has authorized a share repurchase of up to \$2.00 billion of our common stock, reflecting an increase from \$1.00 billion upon the close of the Orbotech Acquisition. We raised approximately \$1.20 billion in new long-term debt financing to partially refinance our existing debt, to repurchase shares and for general corporate purposes. For additional details, refer to Note 8, "Debt", and Note 10, "Stock Repurchase Program" to the condensed consolidated financial statements.

# CRITICAL ACCOUNTING ESTIMATES AND POLICIES

The preparation of our condensed consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions in applying our accounting policies that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. We base these estimates and assumptions on historical experience and evaluate them on an ongoing basis to ensure that they remain reasonable under current conditions. Actual results could differ from those estimates. We discuss the development and selection of the critical accounting estimates with the Audit Committee of our Board of Directors on a quarterly basis, and the Audit Committee has reviewed our related disclosure in this Quarterly Report on Form 10-Q.

We updated our accounting policies for Revenue Recognition, Business Combinations, Global Intangible Low-Taxed Income ("GILTI"), and Derivative Financial Instruments. There have been no other material changes in our critical accounting estimates and policies since our Annual Report on Form 10-K for the fiscal year ended June 30, 2018. Refer to Note 1 "Basis of Presentation" to the condensed consolidated financial statements for additional details. In addition, please refer to Management's Discussion and Analysis of Financial Condition and Results of Operations contained in Part II, Item 7 of our Annual Report on Form 10-K for our fiscal year ended June 30, 2018 for a more complete discussion of our critical accounting policies and estimates.

#### **Recent Accounting Pronouncements**

For a description of recent accounting pronouncements, including those recently adopted and the expected dates of adoption as well as estimated effects, if any, on our condensed consolidated financial statements of those not yet adopted, see Note 1, "Basis of Presentation" to the condensed consolidated financial statements for additional details.

### RESULTS OF OPERATIONS

On July 1, 2018, we adopted ASC 606 using the modified retrospective transition approach. Results for reporting periods beginning after June 30, 2018 are presented under ASC 606, while prior period amounts are presented under legacy guidance. For additional details, refer to Note 2 "Revenue" to the condensed consolidated financial statements.

# **Revenues and Gross Margin**

		Thr	ee months ended								
(Dollar amounts in thousands)	March 31, 2019	Dec	cember 31, 2018	March 31, 2018	Q3 FY19 vs. Q2 FY19				Q3 FY19 vs. Q3 FY18		
Revenues:											
Product	\$ 793,224	\$	852,201	\$ 797,797	\$	(58,977)	(7)%	\$	(4,573)	(1)%	
Service	304,087		267,697	223,497		36,390	14 %		80,590	36 %	
Total revenues	\$ 1,097,311	\$	1,119,898	\$ 1,021,294	\$	(22,587)	(2)%	\$	76,017	7 %	
Costs of revenues	\$ 486,945		408,260	\$ 368,356	\$	78,685	19 %	\$	118,589	32 %	
Gross margin percentage	56%		64%	64%							

	Nine mo	nths en	ded			
(Dollar amounts in thousands)	 March 31, 2019		March 31, 2018	_'	Q3 FY19 YTD vs. Q3 FY18 YTD	
Revenues:						
Product	\$ 2,474,652	\$	2,320,171	\$	154,481	7%
Service	835,817		646,526		189,291	29%
Total revenues	\$ 3,310,469	\$	2,966,697	\$	343,772	12%
Costs of revenues	\$ 1,276,592	\$	1,068,475	\$	208,117	19%
Gross margin percentage	61 %		64 %			

# **Product revenues**

Our business is affected by the concentration of our customer base and our customers' capital equipment procurement patterns as a result of their investment plans. Our product revenues in any particular period are significantly impacted by the amount of new orders that we receive during that period and, depending upon the duration of manufacturing and installation cycles, in the preceding period.

Product revenue decreased during the three months ended March 31, 2019 compared to the three months ended December 31, 2018 and March 31, 2018, primarily due to lower product shipments to customers in the memory business, partially offset by \$125.8 million in product revenue from our newly acquired Orbotech business.

Product revenues increased during the nine months ended March 31, 2019 compared to the nine months ended March 31, 2018, primarily due to a strong demand from our customers in the wafer inspection business, \$125.8 million in product revenue from our newly acquired Orbotech business, and a favorable impact from the adoption of ASC 606 due to our assessment of timing of transfer of control, partially offset by a lower products shipments to customers in the memory business.

### Service revenues

Service revenues are generated from product maintenance and support services, as well as billable time and material service calls made to our customers. The amount of our service revenues is typically a function of the number of systems installed at our customers' sites and the utilization of those systems, but it is also impacted by other factors, such as our rate of service contract renewals, the types of systems being serviced and fluctuations in foreign exchange rates.

Service revenues increased during the each of comparative periods presented, primarily due to the impact of adoption of ASC 606 whereby revenue from the standard warranty represents a separate performance obligation and included in our services revenue, and an increase of \$35.5 million in service revenue from our newly acquired Orbotech business.

### Revenues by region

The following is a summary of revenues by geographic region, based on ship-to location, for the indicated periods:

			Three months en	ded		
(Dollar amounts in thousands)	March 31, 2019	9	December 31, 2	018	March 31, 2	018
Taiwan	\$ 275,507	25%	\$ 266,534	24%	\$ 156,428	15%
China	206,164	19%	269,878	24%	143,761	14%
Korea	196,490	18%	126,968	11%	314,062	31%
North America	156,824	14%	150,113	13%	113,477	11%
Japan	146,069	13%	180,283	16%	199,066	19%
Europe and Israel	76,054	7%	80,618	7%	53,043	6%
Rest of Asia	40,203	4%	45,504	5 %	41,457	4 %
Total	\$ 1,097,311	100%	\$ 1,119,898	100%	\$ 1,021,294	100%

A significant portion of our revenues continue to be generated in Asia, where a substantial portion of the world's semiconductor manufacturing capacity is located, and we expect that trend to continue.

# Gross margin

Our gross margin fluctuates with revenue levels and product mix and is affected by variations in costs related to manufacturing and servicing our products, including our ability to scale our operations efficiently and effectively in response to prevailing business conditions.

The following table summarizes the major factors that contributed to the changes in gross margin percentage:

	Gross Margin Percentage		Gross Margir	n Percentage
	Three months ended		Three months ended	Nine months ended
December 31, 2018	63.5 %	March 31, 2018	63.9 %	64.0 %
Revenue volume of products and services	(1.9)%	Revenue volume of products and services	(2.5)%	(0.8)%
Mix of products and services sold	0.2 %	Mix of products and services sold	0.6 %	1.3 %
Manufacturing labor, overhead and efficiencies	(2.2)%	Manufacturing labor, overhead and efficiencies	(2.3)%	(1.0)%
Other service and manufacturing costs	0.2 %	Other service and manufacturing costs	0.1 %	(0.5)%
Impact from acquisition of Orbotech	(4.2)%	Impact from acquisition of Orbotech	(4.2)%	(1.6)%
March 31, 2019	55.6 %	March 31, 2019	55.6 %	61.4 %

Changes in gross margin percentage driven by revenue volume of products and services reflect our ability to leverage existing infrastructure to generate higher revenues. It also includes the effect of fluctuations in foreign exchange rates, average customer pricing and customer revenue deferrals associated with volume purchase agreements. Changes in gross margin percentage from mix of products and services sold reflect the impact of changes in the composition within product and service offerings. Changes in gross margin percentage from manufacturing labor, overhead and efficiencies reflect our ability to manage costs and drive productivity as we scale our manufacturing activity to respond to customer requirements; this includes the impact of capacity utilization, use of overtime and variability of cost structure. Changes in gross margin percentage from other service and manufacturing costs include the impact of customer support costs, including the efficiencies with which we deliver services to our customers, and the effectiveness with which we manage our production plans and inventory risk.

Our gross margin during the three months ended March 31, 2019 decreased compared to the three months ended December 31, 2018 and March 31, 2018, primarily due to a lower revenue volume of products and services and an increase in service and manufacturing costs, partially offset by a favorable mix of products and services sold, as well as the acquisition of Orbotech which historically had lower product gross margins.

Our gross margin during the nine months ended March 31, 2019 decreased compared to the nine months ended March 31, 2018, primarily due to an increase in service and manufacturing costs, a lower revenue volume of products and services, partially offset by a favorable mix of products and services sold, as well as the acquisition of Orbotech which historically had lower product gross margins.

# Research and Development ("R&D")

		Three months ended					
(Dollar amounts in thousands)	March 31, 2019	December 31, 2018	March 31, 2018	Q3 FY19 vs. Q2 FY19		Q3 FY19 vs. Q3 FY18	
R&D expenses	184,887	165,903	153,239	\$ 18,984	11%	\$ 31,648	21%
R&D expenses as a percentage of total revenues	17%	15%	15%				

	Nine mo	nths er	ded			
(Dollar amounts in thousands)	 March 31, 2019		March 31, 2018	•	Q3 FY19 YTD vs. Q3 FY18 YTD	
R&D expenses	\$ 504,320	\$	456,626	\$	47,694	10%
R&D expenses as a percentage of total revenues	15%		15%			

R&D expenses may fluctuate with product development phases and project timing as well as our focused R&D efforts that are aligned with our overall business strategy. As technological innovation is essential to our success, we may incur significant costs associated with R&D projects, including compensation for engineering talent, engineering material costs, and other expenses.

Our future operating results will depend significantly on our ability to produce products and provide services that have a competitive advantage in our marketplace. To do this, we believe that we must continue to make substantial and focused investments in our R&D. We remain committed to product development in new and emerging technologies as we address the yield challenges our customers face at future technology nodes.

R&D expenses during the three months ended March 31, 2019 increased compared to the three months ended December 31, 2018, primarily due to an increase in employee-related expenses of \$10.1 million as a result of additional engineering headcount and higher variable compensation, and \$19.2 million expenses from the Orbotech business, partially offset by a decrease in engineering materials and supplies expenses of \$9.5 million.

R&D expenses during the three months ended March 31, 2019 increased compared to the three months ended March 31, 2018, primarily due to an increase in employee-related expenses of \$9.0 million as a result of additional engineering headcount and higher variable compensation, an increase in engineering materials and supplies expenses of \$1.5 million, an increase in depreciation expense of \$1.4 million, and \$19.2 million expenses from the Orbotech business.

R&D expenses during the nine months ended March 31, 2019 increased compared to the nine months ended March 31, 2018, primarily due to an increase in employee-related expenses of \$22.5 million as a result of additional engineering headcount and higher variable compensation, an increase in depreciation expenses of \$4.6 million, an increase in engineering materials and supplies expenses of \$2.5 million, and \$19.2 million expenses from the Orbotech business.

# Selling, General and Administrative ("SG&A")

		Three months ended					
(Dollar amounts in thousands)	March 31, 2019	December 31, 2018	March 31, 2018	Q3 FY19 vs. Q2 FY19		Q3 FY19 vs. Q3 FY18	
SG&A expenses	182,184	112,462	113,237	\$ 69,722	62%	\$ 68,947	61%
SG&A expenses as a percentage of total revenues	17%	10%	11%				

	Nine mo	nths en	ded					
(Dollar amounts in thousands) SG&A expenses	 March 31, March 31, 2019 2018				Q3 FY19 YTD vs. Q3 FY18 YTD			
SG&A expenses	\$ 409,084	\$	325,934	\$	83,150	26%		
SG&A expenses as a percentage of total revenues	12%		11%					

SG&A expenses during the three months ended March 31, 2019 increased compared to the three months ended December 31, 2018, primarily due to an increase in employee-related expenses of \$8.4 million as a result of additional headcount, higher employee benefit costs and higher variable compensation, an increase in acquisition-related expenses of \$18.1 million pertaining primarily to the Orbotech acquisition, \$33.2 million expenses from the Orbotech business including \$8.8 million of amortization expense for purchased intangible assets, and \$10.9 million of stock-based compensation expense acceleration for certain equity awards for Orbotech employees.

SG&A expenses during the three months ended March 31, 2019 increased compared to the three months ended March 31, 2018, primarily due to an increase in employee-related expenses of \$8.4 million as a result of additional headcount, higher employee benefit costs and higher variable compensation, an increase in acquisition-related expenses of \$14.9 million pertaining primarily to the Orbotech acquisition, \$33.2 million expenses from the Orbotech business including \$8.8 million of amortization expense for purchased intangible assets, and \$10.9 million of stock-based compensation expense acceleration for certain equity awards for Orbotech employees.

SG&A expenses during the nine months ended March 31, 2019 increased compared to the nine months ended March 31, 2018, primarily due to an increase in employee-related expenses of \$14.6 million as a result of additional headcount, higher employee benefit costs and higher variable compensation, an increase in acquisition-related expenses of \$22.0 million, \$33.2 million expenses from the Orbotech business including \$8.8 million of amortization expense for purchased intangible assets, and \$10.9 million of stock-based compensation expense acceleration for certain equity awards for Orbotech employees.

# Interest Expense and Other Expense (Income), Net

		Three months ended	
(Dollar amounts in thousands)	 March 31, 2019	December 31, 2018	March 31, 2018
Interest expense	\$ 31,187	26,538	28,119
Other expense (income), net	\$ (9,282)	(9,228)	(7,640)
Interest expense as a percentage of total revenues	3 %	2 %	3 %
Other expense (income), net as a percentage of total revenues	1 %	1 %	1 %

		Nine mor	ths end	ded
(Dollar amounts in thousands)	Ma	rch 31, 2019		March 31, 2018
Interest expense	\$	84,087	\$	86,067
Other expense (income), net	\$	(28,535)	\$	(19,847)
Interest expense as a percentage of total revenues		3 %		3 %
Other expense (income), net as a percentage of total revenues		1 %		1 %

Interest expense during the three months ended March 31, 2019 increased compared to the three months ended December 31, 2018, and December 31, 2017, primarily due to interest on the \$1.20 billion Senior Notes issued in March 2019. The decrease in interest expense during the nine months ended March 31, 2019 compared the nine months ended March 31, 2018 was primarily due to lower outstanding debt during the majority of the 2019 period.

Other expense (income), net is comprised primarily of realized gains or losses on sales of marketable securities, gains or losses from revaluations of certain foreign currency denominated assets and liabilities as well as foreign currency contracts, and interest-related accruals (such as interest and penalty accruals related to our tax obligations) and interest income earned on our invested cash, cash equivalents and marketable securities.

The change in other expense (income), net during the three months ended March 31, 2019 compared to the three months ended December 31, 2018 was primarily due to a decrease in interest accruals related to uncertain tax positions of \$1.3 million partially offset by an increase in interest income of \$1.2 million.

The increase in other expense (income), net during the three months ended March 31, 2019 compared to the three months ended March 31, 2018 was primarily due lower net foreign currency loss of \$1.8 million.

The increase in other expense (income), net during the nine months ended March 31, 2019 compared to the nine months ended March 31, 2018 was primarily due to an increase in interest income of \$7.1 million and a higher net foreign currency gain of \$3.3 million.

### **Provision for Income Taxes**

The following table provides details of income taxes:

	 Three mo Mai		Nine mor Mar	led			
(Dollar amounts in thousands)	2019		2018	2019		2018	
Income before income taxes	\$ 221,390	\$	365,983	\$ 1,064,921	\$	1,049,442	
Provision for income taxes	\$ 28,745	\$	59,102	\$ 107,232	\$	595,944	
Effective tax rate	13.0%		16.1%	10.1%	56.8%		

Tax expense was lower as a percentage of income before taxes during thethree months ended March 31, 2019 compared to the three months ended March 31, 2018 primarily due to the impact of the following items:

- Tax expense decreased by \$4.1 million during the three months ended March 31, 2019 relating to a non-taxable increase in the value of the assets held within our Executive Deferred Savings Plan;
- Tax expense decreased by \$7.7 million during the three months ended March 31, 2019 relating to the reduction of the U.S. federal tax rate from 28.1% to 21% for the fiscal year ending June 30, 2019;

- Tax expense decreased by \$4.1 million during the three months ended March 31, 2019 relating to an increase in the proportion of our earnings generated in jurisdictions with tax rates lower than the U.S. statutory rate;
- Tax expense decreased by \$9.7 million during the three months ended March 31, 2019 relating to the Foreign-Derived Intangible Income deduction; partially offset by
- Tax expense increased by \$7.8 million during the three months ended March 31, 2019 relating to the Global Intangible Low-Taxed Income ("GILTI");
- Tax expense increased by \$10.0 million during the three months ended March 31, 2019 relating to the Orbotech
  acquisition.

Tax expense was lower as a percentage of income before taxes during thenine months ended March 31, 2019 compared to the nine months ended March 31, 2018 primarily due to the impact of the following items:

- Tax expense increased by \$446.1 million during the nine months ended March 31, 2018 due to enactment of the Tax Cuts and Jobs Act ("the Act") on December 22, 2017:
- Tax expense decreased by \$18.7 million during the nine months ended March 31, 2019 relating to an increase in the proportion of our earnings generated in jurisdictions with tax rates lower than the U.S. statutory rate during the nine months ended March 31, 2019;
- Tax expense decreased by \$34.7 million during the nine months ended March 31, 2019 relating to the reduction of the U.S. federal tax rate from 28.1% to 21% for the fiscal year ending June 30, 2019;
- Tax expense decreased by \$43.7 million during the nine months ended March 31, 2019 relating to the Foreign-Derived Intangible Income deduction; partially offset by
- Tax expense increased by \$35.3 million during the nine months ended March 31, 2019 relating to the GILTI;
   and
- Tax expense increased by \$10.0 million during the nine months ended March 31, 2019 relating to the Orbotech acquisition.

Our future effective income tax rate depends on various factors, such as tax legislation, the geographic composition of our pre-tax income, the amount of our pre-tax income as business activities fluctuate, non-deductible expenses incurred in connection with acquisitions, research and development credits as a percentage of aggregate pre-tax income, non-taxable or non-deductible increases or decreases in the assets held within our Executive Deferred Savings Plan, the tax effects of employee stock activity and the effectiveness of our tax planning strategies.

In the normal course of business, we are subject to examination by tax authorities throughout the world. We are under United States federal income tax examination for the fiscal year ended June 30, 2016. Although we believe our tax estimates are reasonable, the final determination of tax audits and any related litigation could be materially different from our historical income tax provisions and accruals. The results of an audit or litigation could have a material adverse effect on our results of operations or cash flows in the period or periods for which that determination is made.

In May 2017, Orbotech received an assessment from the ITA with respect to its fiscal years 2012 through 2014 (the "Assessment", and the "Audit Period", respectively), for an aggregate amount of tax against the Company, after offsetting all NOLs for tax purposes available through the end of 2014, of approximately NIS 218 million (approximately \$65 million as of March 31, 2019), which amount includes related interest and linkage differentials to the Israeli consumer price index (as of date of the Assessment). The Company believes its recorded unrecognized tax benefits are sufficient to cover the resolution of the Assessment.

On August 31, 2018, Orbotech filed an objection in respect of the tax assessment (the "Objection"). Orbotech is now in the process of the second stage, in which the claims raised by it in the Objection are examined by different personnel at the ITA. In addition, the ITA can examine additional items and may assess additional amounts in the second stage. The second stage must be completed within one year of when the Objection was filed.

### LIQUIDITY AND CAPITAL RESOURCES

(Dollar amounts in thousands)	As of March 31, 2019	As of June 30, 2018
Cash and cash equivalents	\$ 1,092,163	\$ 1,404,382
Marketable securities	805,105	1,475,936
Total cash, cash equivalents and marketable securities	\$ 1,897,268	\$ 2,880,318
Percentage of total assets	21 %	51 %

	Nine months ended March 31,					
(In thousands)	2019			2018		
Cash flows:						
Net cash provided by operating activities	\$	827,171	\$	855,607		
Net cash (used in) provided by investing activities		(1,211,421)		164,843		
Net cash provided by (used in) financing activities		72,141		(928,717)		
Effect of exchange rate changes on cash and cash equivalents		(110)		10,898		
Net (decrease) increase in cash and cash equivalents	\$	(312,219)	\$	102,631		

## Cash and Cash Equivalents and Marketable Securities:

As of March 31, 2019, our cash, cash equivalents and marketable securities totaled\$1.90 billion, which represents a decrease of \$983.1 million from June 30, 2018. The decrease is mainly due to \$1.82 billion paid to fund Orbotech and other business acquisitions, stock repurchases of \$750.2 million, and cash used for payment of dividends and dividend equivalents of \$350.9 million, partially offset by the net proceeds of our 2019 Senior Notes of \$1.19 billion and our cash generated from operations and net proceeds from marketable securities transactions.

As of March 31, 2019, \$554.1 million of our \$1.90 billion of cash, cash equivalents and marketable securities were held by our foreign subsidiaries and branch offices. We currently intend to indefinitely reinvest \$392.4 million of the cash, cash equivalents and marketable securities held by our foreign subsidiaries. If, however, a portion of these funds were to be repatriated to the United States, we would be required to accrue and pay state and foreign taxes of approximately 1%-22% of the funds repatriated. The amount of taxes due will depend on the amount and manner of the repatriation, as well as the location from which the funds are repatriated. We have accrued state and foreign tax on the remaining cash of \$161.6 million of the \$554.1 million held by our foreign subsidiaries and branch offices. As such, these funds can be returned to the U.S. without accruing any additional U.S. tax expense.

# Quarterly Cash Dividends and Special Cash Dividend:

During the three months ended March 31, 2019, our Board of Directors declared a regular quarterly cash dividend of \$0.75 per share on our outstanding common stock, which was paid on March 1, 2019 to our stockholders of record as of the close of business on February 15, 2019. During the same period in fiscal year 2018, our Board of Directors declared and paid a regular quarterly cash dividend of \$0.59 per share on our outstanding common stock. The total amount of regular quarterly cash dividends and dividend equivalents paid during the three months ended March 31, 2019 and 2018 was \$113.6 million and \$92.1 million, respectively. The total amount of regular quarterly cash dividends and dividend equivalents paid during the nine months ended March 31, 2019 and 2018 was \$348.0 million and \$278.8 million, respectively. The amount of accrued dividend equivalents payable for regular quarterly cash dividends on unvested restricted stock units (RSUs) with dividend equivalent rights as of March 31, 2019 and June 30, 2018 was \$6.5 million and \$6.7 million, respectively. These amounts will be paid upon vesting of the underlying unvested RSU as described in Note 9, "Equity, Long-term Incentive Compensation Plans and Non-Controlling Interest" to the condensed consolidated financial statements.

On November 19, 2014, our Board of Directors declared a special cash dividend of\$16.50 per share on our outstanding common stock. The declaration and payment of the special cash dividend was part of our leveraged recapitalization transaction under which the special cash dividend was financed through a combination of existing cash and proceeds from the debt financing disclosed in Note 8 "Debt" to the condensed consolidated financial statements that was completed during the three months ended December 31, 2014. The total amount of the special cash dividend accrued by us at the declaration date was substantially paid out during the three months ended December 31, 2014, except for the aggregate special cash dividend of \$43.0 million that was accrued for the unvested RSUs and to be paid when such underlying unvested RSUs vest. During the second quarter of fiscal 2019, all of the special cash dividends accrued with respect to outstanding RSUs were vested and paid in full. During the nine months ended March 31, 2019 and 2018, the total special cash dividends paid with respect to vested RSUs were\$2.9 million and \$6.3 million, respectively. Other than the special cash dividend declared during the three months ended December 31, 2014, we historically have not declared any special cash dividends. For details of the special cash dividend, refer to Note 8 "Equity and Long-Term Incentive Compensation Plans," of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

## Stock Repurchases:

The shares repurchased under our stock repurchase program have reduced our basic and diluted weighted-average shares outstanding for thenine months ended March 31, 2019 and 2018. The stock repurchase program is intended, in part, to offset shares issued in connection with the purchases under our ESPP program and the vesting of employee restricted stock units.

### Cash Flows from Operating Activities:

We have historically financed our liquidity requirements through cash generated from our operations. Net cash provided by operating activities during thenine months ended March 31, 2019 decreased by \$28.4 million compared to the nine months ended March 31, 2018 primarily as a result of the following factors:

- An increase in accounts payable payments of approximately \$94.0 million:
- An increase in payments for employee-related expenses of approximately \$22.0
- An increase in payments for merger and acquisition related expenses, mostly related to the Orbotech acquisition of approximately \$55.0 million.

These trends were partially offset by:

- An increase in collections of approximately \$55.0 million mainly driven by higher shipments;
- An increase in interest income of approximately \$5.0 million mainly driven by higher interest rates:
- A decrease in income tax payments of approximately \$62.0 million:
- A decrease in cash-long term incentives of approximately \$11.0 million:
- A decrease in debt interest payments of approximately \$5.0 million;
- A decrease in net other tax payments of approximately \$3.0 million

## Cash Flows from Investing Activities:

Net cash used by investing activities during the nine months ended March 31, 2019 was \$1.21 billion compared to cash provided by investing activities of \$164.8 million during the nine months ended March 31, 2018. This change was mainly due to \$1.82 billion paid to fund Orbotech and other acquisitions, partially offset by cash received from sale and maturity of marketable securities of \$679.9 million during the nine months ended March 31, 2019, compared to \$215.9 million during the nine months ended March 31, 2018.

# Cash Flows from Financing Activities:

Net cash provided by financing activities during the nine months ended March 31, 2019 was \$72.1 million compared to cash used by financing activities of \$928.7 million during the nine months ended March 31, 2018. This change was mainly impacted by net proceeds from the issuance of Senior Notes in March 2019 of \$1.19 billion and lower net payments of the revolving credit facility, partially offset by

- An increase in common stock repurchases of \$585.1 million;
- An increase in dividend and dividend equivalent payments of \$65.9 million due to an increase in our quarterly dividend from \$0.59 to \$0.75 per share;
   and

### Senior Notes:

In March 2019 and November 2014, we issued \$1.20 billion and \$2.50 billion, respectively (each a "2019 Senior Notes", a "2014 Senior Notes", and collectively the "Senior Notes"), aggregate principal amount of senior, unsecured long-term notes.

The interest rate specified for each series of the 2014 Senior Notes will be subject to adjustments from time to time if Moody's Investor Service, Inc. ("Moody's") or Standard & Poor's Ratings Services ("S&P") or, under certain circumstances, a substitute rating agency selected by us as a replacement for Moody's or S&P, as the case may be (a "Substitute Rating Agency"), downgrades (or subsequently upgrades) its rating assigned to the respective series of the 2014 Senior Notes such that the adjusted rating is below investment grade. Unlike the 2014 Senior Notes, the interest rate for each series of the 2019 Senior Notes will not be subject to such adjustments. During the three months ended June 30, 2018, we entered into a series of forward contracts (the "2018 Rate Lock Agreements") to lock the benchmark interest rate with notional amount of \$500.0 million in aggregate. For additional details, refer to Note 15, "Derivative Instruments and Hedging Activities." In October 2014, we entered into a series of forward contracts to lock the 10-year treasury rate ("benchmark rate") on a portion of the 2014 Senior Notes with a notional amount of \$1.00 billion in aggregate. For additional details, refer to Note 15, "Derivative Instruments and Hedging Activities" of this report, and Note 8 "Debt" of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2018.

The original discounts on the 2019 Senior Notes and the 2014 Senior Notes amounted to \$6.7 million and \$4.0 million, respectively, and are being amortized over the life of the debt. Interest is payable semi-annually on May 1 and November 1 of each year for the 2014 Senior Notes and semi-annually on March 15 and September 15 of each year for the 2019 Senior Notes. The indenture for the Senior Notes (the "Indenture") includes covenants that limit our ability to grant liens on our facilities and enter into sale and leaseback transactions, subject to certain allowances under which certain sale and leaseback transactions are not restricted.

In certain circumstances involving a change of control followed by a downgrade of the rating of a series of Senior Notes by at least two of Moody's, S&P and Fitch Inc., unless we have exercised our rights to redeem the Senior Notes of such series, we will be required to make an offer to repurchase all or, at the holder's option, any part, of each holder's Senior Notes of that series pursuant to the offer described below (the "Change of Control Offer"). In the Change of Control Offer, we will be required to offer payment in cash equal to 101% of the aggregate principal amount of Senior Notes repurchased plus accrued and unpaid interest, if any, on the Senior Notes repurchased, up to, but not including, the date of repurchase.

As of March 31, 2019, we were in compliance with all of our covenants under the Indenture associated with the Senior Notes.

## Revolving Credit Facility:

In November 2017, we entered into a Credit Agreement (the "Credit Agreement") providing for a\$750.0 million five-year unsecured Revolving Credit Facility (the "Revolving Credit Facility"), which replaced our prior Credit Facility. Subject to the terms of the Credit Agreement, the Revolving Credit Facility may be increased in an amount up to \$250.0 million in the aggregate. In November 2018, we entered into an Incremental Facility, Extension and Amendment Agreement (the "Amendment"), which amends the Credit Agreement to (a) extend the Maturity Date (the "Maturity Date") from November 30, 2022 to November 30, 2023, (b) increase the total commitment by \$250.0 million and (c) effect certain other amendments to the Credit Agreement as set forth in the Amendment. After giving effect to the Amendment, the total commitment bunder the Credit Agreement are \$1.00 billion. During the third quarter of the fiscal year ending June 30, 2019, we made borrowings of\$900.0 million from the Revolving Credit Facility as part of the funding for the Orbotech Acquisition, which were paid in full in the same quarter. As of March 31, 2019, we had no outstanding borrowings under the Revolving Credit Facility.

We may borrow, repay and reborrow funds under the Revolving Credit Facility until the Maturity Date, at which time such Revolving Credit Facility will terminate, and all outstanding loans under such facility, together with all accrued and unpaid interest, must be repaid. We may prepay outstanding borrowings under the Revolving Credit Facility at any time without a prepayment penalty.

Borrowings under the Revolving Credit Facility will bear interest, at our option, at either: (i) the Alternative Base Rate ("ABR") plus a spread, which ranges from 0 bps to 75 bps, or (ii) the London Interbank Offered Rate ("LIBOR") plus a spread, which ranges from 100 bps to 175 bps. The spreads under ABR and LIBOR are subject to adjustment in conjunction with credit rating downgrades or upgrades. We are also obligated to pay an annual commitment fee on the daily undrawn balance of the Revolving Credit Facility, which ranges from 10 bps to 25 bps, subject to an adjustment in conjunction with changes to our credit rating. As ofMarch 31, 2019, we pay an annual commitment fee of 12.5 bps on the daily undrawn balance of the Revolving Credit Facility.

The Revolving Credit Facility requires us to maintain an interest expense coverage ratio as described in the Credit Agreement, on a quarterly basis, covering the trailing four consecutive fiscal quarters of no less than 3.50 to 1.00. In addition, we are required to maintain the maximum leverage ratio as described in the Credit Agreement, on a quarterly basis of 3.00 to 1.00, covering the trailing four consecutive fiscal quarters for each fiscal quarter, which can be increased to 4.00 to 1.00 for a period of time in connection with a material acquisition or a series of material acquisitions. As of March 31, 2019, we elected to increase the maximum allowed leverage ratio to 4.00 to 1.00 following the Orbotech Acquisition.

We were in compliance with all covenants under the Credit Agreement as of March 31, 2019 (the interest expense coverage ratio was 16.07 to 1.00 and the leverage ratio was 1.71 to 1.00). Considering our current liquidity position, short-term financial forecasts and ability to prepay the Revolving Credit Facility, if necessary, we expect to continue to be in compliance with our financial covenants at the end of our fiscal year ending June 30, 2019.

## Contractual Obligations:

The following is a schedule summarizing our significant obligations to make future payments under contractual cash obligations as of March 31, 2019:

	Fiscal year ending June 30,														
(In thousands)	Total		2019 (2)		2020		2021		2022		2023		2024 and thereafter		Other
Debt obligations(1)	\$ 3,450,000	\$		\$	250,000	\$	_	\$	500,000	\$		\$	2,700,000	\$	_
Interest payment associated with all debt obligations <sup>(3)</sup>	1,578,428		50,972		152,925		146,942		136,630		126,317		964,642		_
Purchase commitments(4)	603,347		419,998		181,176		912		807		197		257		_
Income taxes payable <sup>(5)</sup>	136,587		_		_		_		_		_		_		136,587
Operating leases	87,268		7,360		26,427		18,394		12,845		7,668		14,574		_
Cash long-term incentive program <sup>(6)</sup>	130,141		24,804		49,511		39,736		16,080		10		_		_
Pension obligations(7)	25,092		371		1,668		1,481		2,194		1,945		17,433		_
Executive Deferred Savings Plan <sup>(8)</sup>	204,349		_		_		_		_		_		_		204,349
Transition tax payable(9)	300,643		26,143		26,143		26,143		26,143		49,018		147,053		_
Liability for employee rights upon retirement <sup>(10)</sup>	56,179		_		_		_		_		_		_		56,179
Other(11)	6,494		532		3,458		1,381		883		240		_		_
Total obligations	\$ 6,578,528	\$	530,180	\$	691,308	\$	234,989	\$	695,582	\$	185,395	\$	3,843,959	\$	397,115

- (1) Represents \$3.45 billion aggregate principal amount of Senior Notes due from fiscal year 2020 to fiscal year 2035.
- (2) For the remaining three months of fiscal year 2019.
- (3) The interest payments associated with the Senior Notes obligations included in the table above are based on the principal amount multiplied by the applicable interest rate for each series of Senior Notes. Our future interest payments are subject to change if our then effective credit rating is below investment grade as discussed above. The interest payment under the Revolving Credit Facility for the undrawn balance is payable at 12.5 bps as a commitment fee based on the daily undrawn balance and we utilized the existing rate for the projected interest payments included in the table above. Our future interest payments for the Revolving Credit Facility is subject to change due to any upgrades or downgrades to our then effective credit rating.
- (4) Represents an estimate of significant commitments to purchase inventory from our suppliers as well as an estimate of significant purchase commitments associated with goods, services and other assets in the ordinary course of business. Our liability under these purchase commitments is generally restricted to a forecasted time-horizon as mutually agreed upon between the parties. This forecasted time-horizon can vary among different suppliers. Actual expenditures will vary based upon the volume of the transactions and length of contractual service provided. In addition, the amounts paid under these arrangements may be less in the event the arrangements are renegotiated or canceled. Certain agreements provide for potential cancellation penalties.
- (5) Represents the estimated income tax payable obligation related to uncertain tax positions as well as related accrued interest. We are unable to make a reasonably reliable estimate of the timing of payments in individual years due to uncertainties in the timing of tax audit outcomes.

- (6) Represents the amount committed under our cash long-term incentive program. The expected payment after estimated forfeitures is approximately\$106.0 million
- (7) Represents an estimate of expected benefit payments up to fiscal year 2028 that was actuarially determined and excludes the minimum cash required to contribute to the plan. As of March 31, 2019, our defined benefit pension plans do not have material required minimum cash contribution obligations.
- (8) Represents the amount committed under our non-qualified executive deferred compensation plan. We are unable to make a reasonably reliable estimate of the timing of payments in individual years due to the uncertainties in the timing around participant's separation and any potential changes that participants may decide to make to the previous distribution elections.
- (9) Represents the tax amount for the transition tax liability associated with our deemed repatriation of accumulated foreign earnings as a result from the enactment of the Tax Cuts and Jobs-Act into law on December 22, 2017.
- (10) Represents severance payments due upon dismissal of an employee or upon termination of employment in certain other circumstances as required under Israeli law.
- (11) Represents amounts committed for accrued dividends payable for quarterly cash dividends for unvested restricted stock units granted with dividend equivalent rights. For additional details, refer to Note 9, "Equity, Long-term Incentive Compensation Plans and Non-Controlling Interest," to the condensed consolidated financial statements.

We have adopted a cash-based long-term incentive ("Cash LTI") program for many of our employees as part of our employee compensation program. Cash LTI awards issued to employees under the Cash Long-Term Incentive Plan ("Cash LTI Plan") generally vest in three or four equal installments. For additional details, refer to Note 9, "Equity, Long-term Incentive Compensation Plans and Non-Controlling Interest," to the condensed consolidated financial statements.

We have agreements with financial institutions to sell certain of our trade receivables and promissory notes from customers without recourse. In addition, we periodically sell certain letters of credit ("LCs"), without recourse, received from customers in payment for goods and services.

The following table shows total receivables sold under factoring agreements and proceeds from sales of LCs for the indicated periods:

	 Three mor	nths en ch 31,	Nine months ended March 31,				
(In thousands)	 2019		2018		2018	2017	
Receivables sold under factoring agreements	\$ 48,243	\$	69,390	\$	149,597	\$	148,523
Proceeds from sales of LCs	\$ 40,303	\$	_	\$	59,534	\$	5,571

Factoring and LC fees for the sale of certain trade receivables were recorded in other expense (income), net and were not material for the periods presented.

We maintain guarantee arrangements available through various financial institutions for up to \$45.1 million, of which \$38.7 million had been issued as of March 31, 2019, primarily to fund guarantees to customs authorities for VAT and other operating requirements of our subsidiaries in Europe, Israel, and Asia.

## Working Capital:

Working capital was \$2.74 billion as of March 31, 2019, which is a decrease of \$593.0 million compared to our working capital of \$3.33 billion as of June 30, 2018. As of March 31, 2019, our principal sources of liquidity consisted of \$1.90 billion of cash, cash equivalents and marketable securities. Our liquidity may be affected by many factors, some of which are based on the normal ongoing operations of the business, spending for business acquisitions, and other factors such as uncertainty in the global and regional economies and the semiconductor equipment industries. Although cash requirements will fluctuate based on the timing and extent of these factors, we believe that cash generated from operations, together with the liquidity provided by existing cash and cash equivalents balances and our \$1.00 billion Revolving Credit Facility, will be sufficient to satisfy our liquidity requirements associated with working capital needs, capital expenditures, cash dividends, stock repurchases and other contractual obligations, including repayment of outstanding debt, for at least the next 12 months.

Our credit ratings as of March 31, 2019 are summarized below:

Rating Agency	Rating
Fitch	BBB+
Moody's	Baa1
Standard & Poor's	BBB

Factors that can affect our credit ratings include changes in our operating performance, the economic environment, conditions in the semiconductor and semiconductor equipment industries, our financial position, material acquisitions and changes in our business strategy.

# **Off-Balance Sheet Arrangements**

As of March 31, 2019, we did not have any off-balance sheet arrangements, as defined in Item 303(a)(4)(ii) of SEC Regulation S-K, that have or are reasonably likely to have a current or future effect on our financial position, changes in financial condition, revenues and expenses, results of operations, liquidity, capital expenditures, or capital resources that are material to investors. Refer to Note 14 "Commitments and contingencies" to the condensed consolidated financial statements for information related to indemnification obligations.

# ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to financial market risks, including changes in interest rates, foreign currency exchange rates and marketable equity security prices. To mitigate these risks, we utilize derivative financial instruments, such as foreign currency hedges. All of the potential changes noted below are based on sensitivity analysis performed on our financial position as of March 31, 2019. Actual results may differ materially.

As of March 31, 2019, we had an investment portfolio of fixed income securities of \$0.81 billion. These securities, as with all fixed income instruments, are subject to interest rate risk and will decline in value if market interest rates increase. If market interest rates were to increase immediately and uniformly by 100 bps from levels as of March 31, 2019, the fair value of the portfolio would have declined by \$5.1 million.

In March 2019 and November 2014, we issued \$1.20 billion and \$2.50 billion, respectively, (each, a "2019 Senior Notes", a "2014 Senior Notes", and collectively the "Senior Notes") aggregate principal amount of fixed rate senior, unsecured long-term notes. The fair market value of long-term fixed interest rate notes are subject to interest rate risk. Generally, the fair market value of fixed interest rate notes will increase as interest rates fall and decrease as interest rates rise. As of March 31, 2019, the fair value and the book value of our Senior Notes were \$3.61 billion and \$3.45 billion, respectively, due in various fiscal years ranging from 2020 to 2049. Additionally, the interest expense for the 2014 Senior Notes is subject to interest rate adjustments following a downgrade of our credit ratings below investment grade by the credit rating agencies. Following a rating change below investment grade, the stated interest rate for each series of the 2014 Senior Notes may increase between 25 bps to 100 bps based on the adjusted credit rating. Refer to Note 8, "Debt," to the condensed consolidated financial statements in Part I, Item 1 and Management's Discussion and Analysis of Financial Condition and Results of Operations, "Liquidity and Capital Resources," in Part I, Item 2 for additional details. Factors that can affect our credit ratings include changes in our operating performance, the economic environment, conditions in the semiconductor equipment industries, our financial position, and changes in our business strategy. As of March 31, 2019, if our credit rating was downgraded below investment grade by Moody's and S&P, the maximum potential increase to our annual interest expense on the 2014 Senior Notes, considering a 200 bps increase to the stated interest rate for each series of our 2014 Senior Notes, is estimated to be approximately \$42.9 million. Unlike the 2014 Senior Notes, the interest rate for each series of the 2019 Senior Notes is not be subject to such adjustments.

In November 2017, we entered into a Credit Agreement (the "Credit Agreement") for a\$750.0 million five-year unsecured Revolving Credit Facility (the "Revolving Credit Facility"), which replaced our prior Credit Agreement. Subject to the terms of the Credit Agreement, the Revolving Credit Facility may be increased in an amount up to \$250.0 million in the aggregate. In November 2018, we entered into an Incremental Facility, Extension and Amendment Agreement (the "Amendment"), which amends the Credit Agreement to (a) extend the Maturity Date (the "Maturity Date") from November 30, 2022 to November 30, 2023, (b) increase the total commitment by \$250.0 million and (c) effect certain other amendments to the Credit Agreement as set forth in the Amendment. After giving effect to the Amendment, the total commitments under the Credit Agreement are \$1.00 billion. As of March 31, 2019, we do not have any outstanding floating rate debts that are subject to an increase in interest rates. We are obligated to pay an annual commitment fee of 12.5 bps on the daily undrawn balance of the Revolving Credit Facility, depending upon the then effective credit rating. As of March 31, 2019, if our credit ratings were downgraded to be below investment grade, the maximum potential increase to our annual commitment fee for the Revolving Credit Facility, using the highest range of the ranges discussed above, is estimated to be approximately \$0.8 million.

See Note 5, "Marketable Securities," to the condensed consolidated financial statements in Part I, Item 1; Management's Discussion and Analysis of Financial Condition and Results of Operations, "Liquidity and Capital Resources," in Part I, Item 2; and Risk Factors in Part II, Item 1A of this Quarterly Report on Form 10-Q for a description of recent market events that may affect the value of the investments in our portfolio that we held as of March 31, 2019.

As of March 31, 2019, we had net forward and option contracts to sell\$156.0 million in foreign currency in order to hedge certain currency exposures (see Note 15, "Derivative Instruments and Hedging Activities," to the condensed consolidated financial statements for additional details). If we had entered into these contracts on March 31, 2019, the U.S. dollar equivalent would have been\$153.5 million. A 10% adverse move in all currency exchange rates affecting the contracts would decrease the fair value of the contracts by \$43.2 million. However, if this occurred, the fair value of the underlying exposures hedged by the contracts would increase by a similar amount. Accordingly, we believe that, as a result of the hedging of certain of our foreign currency exposure, changes in most relevant foreign currency exchange rates should have no material impact on our results of operations or cash flows.

# ITEM 4 CONTROLS AND PROCEDURES

# Evaluation of Disclosure Controls and Procedures and Related CEO and CFO Certifications

Evaluation of Disclosure Controls and Procedures

We conducted an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act")) ("Disclosure Controls") as of the end of the period covered by this Quarterly Report on Form 10-Q (this "Report") required by Exchange Act Rules 13a-15(b) or 15d-15(b). The controls evaluation was conducted under the supervision and with the participation of our management, including our Chief Executive Officer ("CEO") and Chief Financial Officer ("CFO"). Based on this evaluation, the CEO and CFO have concluded that as of the end of the period covered by this Report our Disclosure Controls were effective at a reasonable assurance level.

Attached as exhibits to this Report are certifications of the CEO and CFO, which are required in accordance with Rule 13a-14 of the Exchange Act. This Controls and Procedures section includes the information concerning the controls evaluation referred to in the certifications, and it should be read in conjunction with the certifications for a more complete understanding of the topics presented.

## Definition of Disclosure Controls

Disclosure Controls are controls and procedures designed to reasonably assure that information required to be disclosed in our reports filed under the Exchange Act, such as this Report, is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. Disclosure Controls are also designed to reasonably assure that such information is accumulated and communicated to our management, including the CEO and CFO, as appropriate to allow timely decisions regarding required disclosure. Our Disclosure Controls include components of our internal control over financial reporting, which consists of control processes designed to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements in accordance with generally accepted accounting principles in the United States. To the extent that components of our internal control over financial reporting are included within our Disclosure Controls, they are included in the scope of our annual controls evaluation.

## Limitations on the Effectiveness of Controls

Our management, including the CEO and CFO, does not expect that our Disclosure Controls or internal control over financial reporting will prevent all error and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been detected. These inherent limitations include the realities that judgments in decision making can be faulty and that breakdowns can occur because of simple error or mistake. Controls can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving our stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

## Changes in Internal Control over Financial Reporting

During the three months ended March 31, 2019, we made changes to our internal controls over financial reporting due to the acquisition of Orbotech. These changes include enhancements to our internal controls over business combinations and additional controls over the completeness and accuracy of financial statement consolidation.

Management intends to exclude Orbotech from its assessment of the Company's internal control over financial reporting for fiscal 2019. This exclusion is consistent with guidance issued by the SEC that an assessment of a recently acquired business may be omitted from Management's report on internal control over financial reporting in the fiscal year of acquisition.

Subject to the foregoing, there were no other material changes in our internal control over financial reporting identified in connection with the evaluation required by Rule 13a-15(d) and 15d-15(d) of the Exchange Act that occurred during the most recent fiscal quarter covered by this Quarterly Report on Form 10-Q that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

### PART II. OTHER INFORMATION

# ITEM 1. LEGAL PROCEEDINGS

The information set forth above under Note 13, "Litigation and Other Legal Matters," to the condensed consolidated financial statements in Item 1 of Part 1 is incorporated herein by reference.

# ITEM 1A. RISK FACTORS

A description of factors that could materially affect our business, financial condition or operating results is provided below.

# Risks Associated with Our Industry

## Ongoing changes in the technology industry, as well as the semiconductor industry in particular, could expose our business to significant risks.

The industries that we serve, including the semiconductor, flat panel display and printed circuit board industries, are constantly developing and changing over time. Many of the risks associated with operating in these industries are comparable to the risks faced by all technology companies, such as the uncertainty of future growth rates in the industries that we serve, pricing trends in the end-markets for consumer electronics and other products (which place a growing emphasis on our customers' cost of ownership), changes in our customers' capital spending patterns and, in general, an environment of constant change and development, including decreasing product and component dimensions; use of new materials; and increasingly complex device structures, applications and process steps. If we fail to appropriately adjust our cost structure and operations to adapt to any of these trends, or, with respect to technological advances, if we do not timely develop new technologies and products that successfully anticipate and address these changes, we could experience a material adverse effect on our business, financial condition and operating results.

In addition, we face a number of risks specific to ongoing changes in the semiconductor industry, as a significant majority of our sales are our process control and yield management products sold to semiconductor manufacturers. Some of the trends that our management monitors in operating our business include the following:

- the potential for reversal of the long-term historical trend of declining cost per transistor with each new generation of technological advancement within the semiconductor industry, and the adverse impact that such reversal may have upon our business;
- the increasing cost of building and operating fabrication facilities and the impact of such increases on our customers' capital equipment investment decisions:
- differing market growth rates and capital requirements for different applications, such as memory, logic and foundry;
- lower level of process control adoption by our memory customers compared to our foundry and logic customers:
- our customers' reuse of existing and installed products, which may decrease their need to purchase new products or solutions at more advanced technology nodes;
- the emergence of disruptive technologies that change the prevailing semiconductor manufacturing processes (or the economics associated with semiconductor manufacturing) and, as a result, also impact the inspection and metrology requirements associated with such processes;
- the higher design costs for the most advanced integrated circuits, which could economically constrain leading-edge manufacturing technology customers to focus their resources on only the large, technologically advanced products and applications;
- the possible introduction of integrated products by our larger competitors that offer inspection and metrology functionality in addition to managing other semiconductor manufacturing processes;
- changes in semiconductor manufacturing processes that are extremely costly for our customers to implement and, accordingly, our customers could reduce their
  available budgets for process control equipment by reducing inspection and metrology sampling rates for certain technologies;
- the bifurcation of the semiconductor manufacturing industry into (a) leading edge manufacturers driving continued research and development into next-generation products and technologies and (b) other manufacturers that are content with existing (including previous generation) products and technologies;
- the ever escalating cost of next-generation product development, which may result in joint development programs between us and our customers or government
  entities to help fund such programs that could restrict our control of, ownership of and profitability from the products and technologies developed through those
  programs; and
- the entry by some semiconductor manufacturers into collaboration or sharing arrangements for capacity, cost or risk with other manufacturers, as well as increased outsourcing of their manufacturing activities, and greater focus only on specific markets or applications, whether in response to adverse market conditions or other market pressures.

Any of the changes described above may negatively affect our customers' rate of investment in the capital equipment that we produce, which could result in downward pressure on our prices, customer orders, revenues and gross margins. If we do not successfully manage the risks resulting from any of these or other potential changes in our industries, our business, financial condition and operating results could be adversely impacted.

## We are exposed to risks associated with a highly concentrated customer base.

Our customer base, particularly in the semiconductor industry, historically has been highly concentrated due to corporate consolidation, acquisitions and business closures. In this environment, orders from a relatively limited number of manufacturers have accounted for, and are expected to continue to account for, a substantial portion of our sales. This increasing concentration exposes our business, financial condition and operating results to a number of risks, including the following:

- The mix and type of customers, and sales to any single customer, may vary significantly from quarter to quarter and from year to year, which exposes our business and operating results to increased volatility tied to individual customers.
- New orders from our foundry customers in the past several years have constituted a significant portion of our total orders. This concentration increases the impact that
  future business or technology changes within the foundry industry may have on our business, financial condition and operating results.
- In a highly concentrated business environment, if a particular customer does not place an order, or if they delay or cancel orders, we may not be able to replace the business. Furthermore, because our process control and yield management products are configured to each customer's specifications, any changes, delays or cancellations of orders may result in significant, non-recoverable costs.
- As a result of this consolidation, the customers that survive the consolidation represent a greater portion of our sales and, consequently, have greater commercial
  negotiating leverage. Many of our large customers have more aggressive policies regarding engaging alternative, second-source suppliers for the products we offer
  and, in addition, may seek and, on occasion, receive pricing, payment, intellectual property-related or other commercial terms that may have an adverse impact on our
  business. Any of these changes could negatively impact our prices, customer orders, revenues and gross margins.
- Certain customers have undergone significant ownership changes, created alliances with other companies, experienced management changes or have outsourced
  manufacturing activities, any of which may result in additional complexities in managing customer relationships and transactions. Any future change in ownership or
  management of our existing customers may result in similar challenges, including the possibility of the successor entity or new management deciding to select a
  competitor's products.
- The highly concentrated business environment also increases our exposure to risks related to the financial condition of each of our customers. For example, as a result of the challenging economic environment during fiscal year 2009, we were (and in some cases continue to be) exposed to additional risks related to the continued financial viability of certain of our customers. To the extent our customers experience liquidity issues in the future, we may be required to incur additional bad debt expense with respect to receivables owed to us by those customers. In addition, customers with liquidity issues may be forced to reduce purchases of our equipment, delay deliveries of our products, discontinue operations or may be acquired by one of our customers, and in either case such event would have the effect of further consolidating our customer base.
- Semiconductor manufacturers generally must commit significant resources to qualify, install and integrate process control and yield management equipment into a semiconductor production line. We believe that once a semiconductor manufacturer selects a particular supplier's process control and yield management equipment, the manufacturer generally relies upon that equipment for that specific production line application for an extended period of time. Accordingly, we expect it to be more difficult to sell our products to a given customer for that specific production line application and other similar production line applications if that customer initially selects a competitor's equipment. Similarly, we expect it to be challenging for a competitor to sell its products to a given customer for a specific production line application if that customer initially selects our equipment.
- Prices differ among the products we offer for different applications due to differences in features offered or manufacturing costs. If there is a shift in demand by our customers from our higher-priced to lower-priced products, our gross margin and revenue would decrease. In addition, when products are initially introduced, they tend to have higher costs because of initial development costs and lower production volumes relative to the previous product generation, which can impact gross margin.

Any of these factors could have a material adverse effect on our business, financial condition and operating results.

We operate in industries that have historically been cyclical, including the semiconductor industry. The purchasing decisions of our customers are highly dependent on the economies of both the local markets in which they are located and the condition of the industry worldwide. If we fail to respond to industry cycles, our business could be seriously harmed.

The timing, length and severity of the up-and-down cycles in the industries in which we serve are difficult to predict. The historically cyclical nature of the semiconductor industry in which we primarily operate is largely a function of our customers' capital spending patterns and need for expanded manufacturing capacity, which in turn are affected by factors such as capacity utilization, consumer demand for products, inventory levels and our customers' access to capital. Cyclicality affects our ability to accurately predict future revenue and, in some cases, future expense levels. During down cycles in our industry, the financial results of our customers may be negatively impacted, which could result not only in a decrease in, or cancellation or delay of, orders (which are generally subject to cancellation or delay by the customer with limited or no penalty) but also a weakening of their financial condition that could impair their ability to pay for our products or our ability to recognize revenue from certain customers. Our ability to recognize revenue from a particular customer may also be negatively impacted by the customer's funding status, which could be weakened not only by adverse business conditions or inaccessibility to capital markets for any number of macroeconomic or company-specific reasons, but also by funding limitations imposed by the customer's unique organizational structure. Any of these factors could negatively impact our business, operating results and financial condition.

When cyclical fluctuations result in lower than expected revenue levels, operating results may be adversely affected and cost reduction measures may be necessary for us to remain competitive and financially sound. During periods of declining revenues, we must be in a position to adjust our cost and expense structure to prevailing market conditions and to continue to motivate and retain our key employees. If we fail to respond, or if our attempts to respond fail to accomplish our intended results, then our business could be seriously harmed. Furthermore, any workforce reductions and cost reduction actions that we adopt in response to down cycles may result in additional restructuring charges, disruptions in our operations and loss of key personnel. In addition, during periods of rapid growth, we must be able to increase manufacturing capacity and personnel to meet customer demand. We can provide no assurance that these objectives can be met in a timely manner in response to industry cycles. Each of these factors could adversely impact our operating results and financial condition.

In addition, our management typically provides quarterly forecasts for certain financial metrics, which, when made, are based on business and operational forecasts that are believed to be reasonable at the time. However, largely due to the historical cyclicality of our business and the industries in which we operate, and the fact that business conditions in our industries can change very rapidly as part of these cycles, our actual results may vary (and have varied in the past) from forecasted results. These variations can occur for any number of reasons, including, but not limited to, unexpected changes in the volume or timing of customer orders, product shipments or product acceptance; an inability to adjust our operations rapidly enough to adapt to changing business conditions; or a different than anticipated effective tax rate. The impact on our business of delays or cancellations of customer orders may be exacerbated by the short lead times that our customers expect between order placement and product shipment. This is because order delays and cancellations may lead not only to lower revenues, but also, due to the advance work we must do in anticipation of receiving a product order to meet the expected lead times, to significant inventory write-offs and manufacturing inefficiencies that decrease our gross margin. Any of these factors could materially and adversely affect our financial results for a particular quarter and could cause those results to differ materially from financial forecasts we have previously provided. We provide these forecasts with the intent of giving investors and analysts a better understanding of management's expectations for the future, but those reviewing such forecasts must recognize that such forecasts are comprised of, and are themselves, forward-looking statements subject to the risks and uncertainties described in this Item 1A and elsewhere in this report and in our other public filings and public statements. If our operating or financial results for a particular period differ

# Risks Related to Our Business Model and Capital Structure

If we do not develop and introduce new products and technologies in a timely manner in response to changing market conditions or customer requirements, our business could be seriously harmed.

Success in the industries in which we serve, including the semiconductor, flat panel display and printed circuit board industries depends, in part, on continual improvement of existing technologies and rapid innovation of new solutions. The primary driver of technology advancement in the semiconductor industry has been to shrink the lithography that prints the circuit design on semiconductor chips. That driver appears to be slowing, which may cause semiconductor manufacturers to delay investments in equipment, investigate more complex device architectures, use new materials and develop innovative fabrication processes. These and other evolving customer plans and needs require us to respond with continued development programs and cut back or discontinue older programs, which may no longer have industry-wide support. Technical innovations are inherently complex and require long development cycles and appropriate staffing of highly qualified employees. Our competitive advantage and future business success depend on our ability to accurately predict evolving industry standards, develop and introduce new products and solutions that successfully address changing customer needs, win market acceptance of these new products and solutions, and manufacture these new products in a timely and cost-effective manner. Our failure to accurately predict evolving industry standards and develop as well as offer competitive technology solutions in a timely manner with cost-effective products could result in loss of market share, unanticipated costs, and inventory obsolescence, which would adversely impact our business, operating results and financial condition.

We must continue to make significant investments in research and development in order to enhance the performance, features and functionality of our products, to keep pace with competitive products and to satisfy customer demands. Substantial research and development costs typically are incurred before we confirm the technical feasibility and commercial viability of a new product, and not all development activities result in commercially viable products. There can be no assurance that revenues from future products or product enhancements will be sufficient to recover the development costs associated with such products or enhancements. In addition, we cannot be sure that these products or enhancements will receive market acceptance or that we will be able to sell these products at prices that are favorable to us. Our business will be seriously harmed if we are unable to sell our products at favorable prices or if the market in which we operate does not accept our products.

In addition, the complexity of our products exposes us to other risks. We regularly recognize revenue from a sale upon shipment of the applicable product to the customer (even before receiving the customer's formal acceptance of that product) in certain situations, including sales of products for which installation is considered perfunctory, transactions in which the product is sold to an independent distributor and we have no installation obligations, and sales of products where we have previously delivered the same product to the same customer location and that prior delivery has been accepted. However, our products are very technologically complex and rely on the interconnection of numerous subcomponents (all of which must perform to their respective specifications), so it is conceivable that a product for which we recognize revenue upon shipment may ultimately fail to meet the overall product's required specifications. In such a situation, the customer may be entitled to certain remedies, which could materially and adversely affect our operating results for various periods and, as a result, our stock price.

We derive a substantial percentage of our revenues from sales of inspection products. As a result, any delay or reduction of sales of these products could have a material adverse effect on our business, financial condition and operating results. The continued customer demand for these products and the development, introduction and market acceptance of new products and technologies are critical to our future success.

Our success is dependent in part on our technology and other proprietary rights. If we are unable to maintain our lead or protect our proprietary technology, we may lose valuable assets.

Our success is dependent in part on our technology and other proprietary rights. We own various United States and international patents and have additional pending patent applications relating to some of our products and technologies. The process of seeking patent protection is lengthy and expensive, and we cannot be certain that pending or future applications will actually result in issued patents or that issued patents will be of sufficient scope or strength to provide meaningful protection or commercial advantage to us. Other companies and individuals, including our larger competitors, may develop technologies and obtain patents relating to our business that are similar or superior to our technology or may design around the patents we own, which may adversely affect our business. In addition, we at times engage in collaborative technology development efforts with our customers and suppliers, and these collaborations may constitute a key component of certain of our ongoing technology and product research and development projects. The termination of any such collaboration, or delays caused by disputes or other unanticipated challenges that may arise in connection with any such collaboration, could significantly impair our research and development efforts, which could have a material adverse impact on our business and operations.

We also maintain trademarks on certain of our products and services and claim copyright protection for certain proprietary software and documentation. However, we can give no assurance that our trademarks and copyrights will be upheld or successfully deter infringement by third parties.

While patent, copyright and trademark protection for our intellectual property is important, we believe our future success in highly dynamic markets is most dependent upon the technical competence and creative skills of our personnel. We attempt to protect our trade secrets and other proprietary information through confidentiality and other agreements with our customers, suppliers, employees and consultants and through other security measures. We also maintain exclusive and non-exclusive licenses with third parties for strategic technology used in certain products. However, these employees, consultants and third parties may breach these agreements, and we may not have adequate remedies for wrongdoing. In addition, the laws of certain territories in which we develop, manufacture or sell our products may not protect our intellectual property rights to the same extent as do the laws of the United States. In any event, the extent to which we can protect our trade secrets through the use of confidentiality agreements is limited, and our success will depend to a significant extent on our ability to innovate ahead of our competitors.

### Our future performance depends, in part, upon our ability to continue to compete successfully worldwide.

Our industry includes large manufacturers with substantial resources to support customers worldwide. Some of our competitors are diversified companies with greater financial resources and more extensive research, engineering, manufacturing, marketing, and customer service and support capabilities than we possess. We face competition from companies whose strategy is to provide a broad array of products and services, some of which compete with the products and services that we offer. These competitors may bundle their products in a manner that may discourage customers from purchasing our products, including pricing such competitive tools significantly below our product offerings. In addition, we face competition from smaller emerging companies whose strategy is to provide a portion of the products and services that we offer, using innovative technology to sell products into specialized markets. The strength of our competitive positions in many of our existing markets is largely due to our leading technology, which is the result of continuing significant investments in product research and development. However, we may enter new markets, whether through acquisitions or new internal product development, in which competition is based primarily on product pricing, not technological superiority. Further, some new growth markets that emerge may not require leading technologies. Loss of competitive position in any of the markets we serve, or an inability to sell our products on favorable commercial terms in new markets we may enter, could negatively affect our prices, customer orders, revenues, gross margins and market share, any of which would negatively affect our operating results and financial condition.

Our business would be harmed if we do not receive parts sufficient in number and performance to meet our production requirements and product specifications in a timely and cost-effective manner.

We use a wide range of materials in the production of our products, including custom electronic and mechanical components, and we use numerous suppliers to supply these materials. We generally do not have guaranteed supply arrangements with our suppliers. Because of the variability and uniqueness of customers' orders, we do not maintain an extensive inventory of materials for manufacturing. Through our business interruption planning, we seek to minimize the risk of production and service interruptions and/or shortages of key parts by, among other things, monitoring the financial stability of key suppliers, identifying (but not necessarily qualifying) possible alternative suppliers and maintaining appropriate inventories of key parts. Although we make reasonable efforts to ensure that parts are available from multiple suppliers, certain key parts are available only from a single supplier or a limited group of suppliers. Also, key parts we obtain from some of our suppliers incorporate the suppliers' proprietary intellectual property; in those cases, we are increasingly reliant on third parties for high-performance, high-technology components, which reduces the amount of control we have over the availability and protection of the technology and intellectual property that is used in our products. In addition, if certain of our key suppliers experience liquidity issues and are forced to discontinue operations, which is a heightened risk especially during economic downturns, it could affect their ability to deliver parts and could result in delays for our products. Similarly, especially with respect to suppliers of high-technology components, our suppliers themselves have increasingly complex supply chains, and delays or disruptions at any stage of their supply chains may prevent us from obtaining parts in a timely manner and result in delays for our products. Our operating results and business may be adversely impacted if we are unable to obtain parts to meet our production requirements and product specifications, or if we are only able to do so on unfavorable terms. Furthermore, a supplier may discontinue production of a particular part for any number of reasons, including the supplier's financial condition or business operational decisions, which would require us to purchase, in a single transaction, a large number of such discontinued parts in order to ensure that a continuous supply of such parts remains available to our customers. Such "end-of-life" parts purchases could result in significant expenditures by us in a particular period, and ultimately any unused parts may result in a significant inventory write-off, either of which could have an adverse impact on our financial condition and results of operations for the applicable periods.

# If we fail to operate our business in accordance with our business plan, our operating results, business and stock price may be significantly and adversely impacted.

We attempt to operate our business in accordance with a business plan that is established annually, revised frequently (generally quarterly), and reviewed by management even more frequently (at least monthly). Our business plan is developed based on a number of factors, many of which require estimates and assumptions, such as our expectations of the economic environment, future business levels, our customers' willingness and ability to place orders, lead-times, and future revenue and cash flow. Our budgeted operating expenses, for example, are based in part on our future revenue expectations. However, our ability to achieve our anticipated revenue levels is a function of numerous factors, including the volatile and historically cyclical nature of our primary industry, customer order cancellations, macroeconomic changes, operational matters regarding particular agreements, our ability to manage customer deliveries, the availability of resources for the installation of our products, delays or accelerations by customers in taking deliveries and the acceptance of our products (for products where customer acceptance is required before we can recognize revenue from such sales), our ability to operate our business and sales processes effectively, and a number of the other risk factors set forth in this Item 1A.

Because our expenses are in most cases relatively fixed in the short term, any revenue shortfall below expectations could have an immediate and significant adverse effect on our operating results. Similarly, if we fail to manage our expenses effectively or otherwise fail to maintain rigorous cost controls, we could experience greater than anticipated expenses during an operating period, which would also negatively affect our results of operations. If we fail to operate our business consistent with our business plan, our operating results in any period may be significantly and adversely impacted. Such an outcome could cause customers, suppliers or investors to view us as less stable, or could cause us to fail to meet financial analysts' revenue or earnings estimates, any of which could have an adverse impact on our stock price.

In addition, our management is constantly striving to balance the requirements and demands of our customers with the availability of resources, the need to manage our operating model and other factors. In furtherance of those efforts, we often must exercise discretion and judgment as to the timing and prioritization of manufacturing, deliveries, installations and payment scheduling. Any such decisions may impact our ability to recognize revenue, including the fiscal period during which such revenue may be recognized, with respect to such products, which could have a material adverse effect on our business, results of operations or stock price.

### Our capital structure is highly leveraged.

As of March 31, 2019, we had \$3.45 billion aggregate principal amount of senior, unsecured long-term notes. Additionally, we have commitments for an unfunded Revolving Credit Facility of \$1.00 billion under the Credit Agreement. We may incur additional indebtedness in the future by accessing the unfunded portion of our Revolving Credit Facility and/or entering into new financing arrangements. For example, at the same time we announced our intention to acquire Orbotech, we also announced a new stock repurchase program authorizing the repurchase up to \$2.00 billion of our common stock, a large portion of which would be financed with new indebtedness. Our ability to pay interest and repay the principal of our current indebtedness is dependent upon our ability to manage our business operations, our credit rating, the ongoing interest rate environment and the other risk factors discussed in this section. There can be no assurance that we will be able to manage any of these risks successfully.

In addition, the interest rates of the senior, unsecured long-term notes may be subject to adjustments from time to time if Moody's Investors Service, Inc. ("Moody's"), Standard & Poor's Ratings Services ("S&P") or, under certain circumstances, a substitute rating agency selected by us as a replacement for Moody's or S&P, as the case may be (a "Substitute Rating Agency"), downgrades (or subsequently upgrades) its rating assigned to the respective series of notes such that the adjusted rating is below investment grade. Accordingly, changes by Moody's, S&P, or a Substitute Rating Agency to the rating of any series of notes, our outlook or credit rating could require us to pay additional interest, which may negatively affect the value and liquidity of our debt and the market price of our common stock could decline. Factors that can affect our credit rating include changes in our operating performance, the economic environment, conditions in the industries we serve, our financial position, including the incurrence of additional indebtedness, and our business strategy.

In certain circumstances involving a change of control followed by a downgrade of the rating of a series of notes by at least two of Moody's, S&P and Fitch Inc., unless we have exercised our right to redeem the notes of such series, we will be required to make an offer to repurchase all or, at the holder's option, any part, of each holder's notes of that series pursuant to the offer described below (the "Change of Control Offer"). In the Change of Control Offer, we will be required to offer payment in cash equal to 101% of the aggregate principal amount of notes repurchased plus accrued and unpaid interest, if any, on the notes repurchased, up to, but not including, the date of repurchase. We cannot make any assurance that we will have sufficient financial resources at such time or will be able to arrange financing to pay the repurchase price of that series of notes. Our ability to repurchase that series of notes in such event may be limited by law, by the indenture associated with that series of notes, or by the terms of other agreements to which we may be party at such time. If we fail to repurchase that series of notes as required by the terms of such notes, it would constitute an event of default under the indenture governing that series of notes which, in turn, may also constitute an event of default under other of our obligations.

Borrowings under our Revolving Credit Facility bear interest at a floating rate, and an increase in interest rates would require us to pay additional interest on any borrowings, which may have an adverse effect on the value and liquidity of our debt and the market price of our common stock could decline. The interest rate under our Revolving Credit Facility is also subject to an adjustment in conjunction with our credit rating downgrades or upgrades. Additionally, under our Revolving Credit Facility, we are required to comply with affirmative and negative covenants, which include the maintenance of certain financial ratios, the details of which can be found in Note 8, "Debt," to our condensed consolidated financial statements. If we fail to comply with these covenants, we will be in default and our borrowings will become immediately due and payable. There can be no assurance that we will have sufficient financial resources or we will be able to arrange financing to repay our borrowings at such time. In addition, certain of our domestic subsidiaries are required to guarantee our borrowings under our Revolving Credit Facility. In the event that we default on our borrowings, these domestic subsidiaries shall be liable for our borrowings, which could disrupt our operations and result in a material adverse impact on our business, financial condition or stock price.

#### Our leveraged capital structure may adversely affect our financial condition, results of operations and net income per share.

Our issuance and maintenance of higher levels of indebtedness could have adverse consequences including, but not limited to:

- a negative impact on our ability to satisfy our future obligations:
- an increase in the portion of our cash flows that may have to be dedicated to increased interest and principal payments that may not be available for operations, working capital, capital expenditures, acquisitions, investments, dividends, stock repurchases, general corporate or other purposes;
- an impairment of our ability to obtain additional financing in the future;
- obligations to comply with restrictive and financial covenants as noted in the above risk factor and Note 8, "Debt," to our condensed consolidated financial statements.

Our ability to satisfy our future expenses as well as our new debt obligations will depend on our future performance, which will be affected by financial, business, economic, regulatory and other factors. Furthermore, our future operations may not generate sufficient cash flows to enable us to meet our future expenses and service our new debt obligations, which may impact our ability to manage our capital structure to preserve and maintain our investment grade rating. If our future operations do not generate sufficient cash flows, we may need to access the money available for borrowing under our Revolving Credit Facility or enter into new financing arrangements to obtain necessary funds. If we determine it is necessary to seek additional funding for any reason, we may not be able to obtain such funding or, if funding is available, we may not be able to obtain it on acceptable terms. Any borrowings under our Revolving Credit Facility will place further pressure on us to comply with the financial covenants. If we fail to make a payment associated with our debt obligations, we could be in default on such debt, and such a default could cause us to be in default on our other obligations.

### There can be no assurance that we will continue to declare cash dividends at all or in any particular amounts.

Our Board of Directors first instituted a quarterly dividend during the fiscal year ended June 30, 2005. Since that time, we have announced a number of increases in the amount of our quarterly dividend level as well as payment of a special cash dividend that was declared and substantially paid in the second quarter of our fiscal year ended June 30, 2015. We intend to continue to pay quarterly dividends subject to capital availability and periodic determinations by our Board of Directors that cash dividends are in the best interest of our stockholders and are in compliance with all laws and agreements applicable to the declaration and payment of cash dividends by us. Future dividends may be affected by, among other factors: our views on potential future capital requirements for investments in acquisitions and the funding of our research and development; legal risks; stock repurchase programs; changes in federal and state income tax laws or corporate laws; changes to our business model; and our increased interest and principal payments required by our outstanding indebtedness and any additional indebtedness that we may incur in the future. Our dividend payments may change from time to time, and we cannot provide assurance that we will continue to declare dividends at all or in any particular amounts. A reduction in our dividend payments could have a negative effect on our stock price.

## We are exposed to risks related to our commercial terms and conditions, including our indemnification of third parties, as well as the performance of our products.

Although our standard commercial documentation sets forth the terms and conditions that we intend to apply to commercial transactions with our business partners, counterparties to such transactions may not explicitly agree to our terms and conditions. In situations where we engage in business with a third party without an explicit master agreement regarding the applicable terms and conditions, or where the commercial documentation applicable to the transaction is subject to varying interpretations, we may have disputes with those third parties regarding the applicable terms and conditions of our business relationship with them. Such disputes could lead to a deterioration of our commercial relationship with those parties, costly and time-consuming litigation, or additional concessions or obligations being offered by us to resolve such disputes, or could impact our revenue or cost recognition. Any of these outcomes could materially and adversely affect our business, financial condition and results of operations.

In addition, in our commercial agreements, from time to time in the normal course of business we indemnify third parties with whom we enter into contractual relationships, including customers, suppliers and lessors, with respect to certain matters. We have agreed, under certain conditions, to hold these third parties harmless against specified losses, such as those arising from a breach of representations or covenants, other third party claims that our products when used for their intended purposes infringe the intellectual property rights of such other third parties, or other claims made against certain parties. We may be compelled to enter into or accrue for probable settlements of alleged indemnification obligations, or we may be subject to potential liability arising from our customers' involvements in legal disputes. In addition, notwithstanding the provisions related to limitations on our liability that we seek to include in our business agreements, the counterparties to such agreements may dispute our interpretation or application of such provisions, and a court of law may not interpret or apply such provisions in our favor, any of which could result in an obligation for us to pay material damages to third parties and engage in costly legal proceedings. It is difficult to determine the maximum potential amount of liability under any indemnification obligations, whether or not asserted, due to our limited history of prior indemnification claims and the unique facts and circumstances that are likely to be involved in any particular claim. Our business, financial condition and results of operations in a reported fiscal period could be materially and adversely affected if we expend significant amounts in defending or settling any purported claims, regardless of their merit or outcomes.

We are also exposed to potential costs associated with unexpected product performance issues. Our products and production processes are extremely complex and thus could contain unexpected product defects, especially when products are first introduced. Unexpected product performance issues could result in significant costs being incurred by us, including increased service or warranty costs, providing product replacements for (or modifications to) defective products, litigation related to defective products, reimbursement for damages caused by our products, product recalls, or product write-offs or disposal costs. These costs could be substantial and could have an adverse impact upon our business, financial condition and operating results. In addition, our reputation with our customers could be damaged as a result of such product defects, which could reduce demand for our products and negatively impact our business.

Furthermore, we occasionally enter into volume purchase agreements with our larger customers, and these agreements may provide for certain volume purchase incentives, such as credits toward future purchases. We believe that these arrangements are beneficial to our long-term business, as they are designed to encourage our customers to purchase higher volumes of our products. However, these arrangements could require us to recognize a reduced level of revenue for the products that are initially purchased, to account for the potential future credits or other volume purchase incentives. Our volume purchase agreements require significant estimation for the amounts to be accrued depending upon the estimate of volume of future purchases. As such, we are required to update our estimates of the accruals on a periodic basis. Until the earnings process is complete, our estimates could differ in comparison to actual results. As a result, these volume purchase arrangements, while expected to be beneficial to our business over time, could materially and adversely affect our results of operations in near-term periods, including the revenue we can recognize on product sales and therefore our gross margins.

In addition, we may in limited circumstances enter into agreements that contain customer-specific commitments on pricing, tool reliability, spare parts stocking levels, response time and other commitments. Furthermore, we may give these customers limited audit or inspection rights to enable them to confirm that we are complying with these commitments. If a customer elects to exercise its audit or inspection rights, we may be required to expend significant resources to support the audit or inspection, as well as to defend or settle any dispute with a customer that could potentially arise out of such audit or inspection. To date, we have made no significant accruals in our condensed consolidated financial statements for this contingency. While we have not in the past incurred significant expenses for resolving disputes regarding these types of commitments, we cannot make any assurance that we will not incur any such liabilities in the future. Our business, financial condition and results of operations in a reported fiscal period could be materially and adversely affected if we expend significant amounts in supporting an audit or inspection, or defending or settling any purported claims, regardless of their merit or outcomes.

# There are risks associated with our receipt of government funding for research and development.

We are exposed to additional risks related to our receipt of external funding for certain strategic development programs from various governments and government agencies, both domestically and internationally. Governments and government agencies typically have the right to terminate funding programs at any time in their sole discretion, or a project may be terminated by mutual agreement if the parties determine that the project's goals or milestones are not being achieved, so there is no assurance that these sources of external funding will continue to be available to us in the future. In addition, under the terms of these government grants, the applicable granting agency typically has the right to audit the costs that we incur, directly and indirectly, in connection with such programs. Any such audit could result in modifications to, or even termination of, the applicable government funding program. For example, if an audit were to identify any costs as being improperly allocated to the applicable program, those costs would not be reimbursed, and any such costs that had already been reimbursed would have to be refunded. We do not know the outcome of any future audits. Any adverse finding resulting from any such audit could lead to penalties (financial or otherwise), termination of funding programs, suspension of payments, fines and suspension or prohibition from receiving future government funding from the applicable government or government agency, any of which could adversely impact our operating results, financial condition and ability to operate our business.

We have recorded significant restructuring, inventory write-off and asset impairment charges in the past and may do so again in the future, which could have a material negative impact on our business.

Historically, we have recorded material restructuring charges related to our prior global workforce reductions, large excess inventory write-offs, and material impairment charges related to our goodwill and purchased intangible assets. Workforce changes can also temporarily reduce workforce productivity, which could be disruptive to our business and adversely affect our results of operations. In addition, we may not achieve or sustain the expected cost savings or other benefits of our restructuring plans, or do so within the expected time frame. If we again restructure our organization and business processes, implement additional cost reduction actions or discontinue certain business operations, we may take additional, potentially material, restructuring charges related to, among other things, employee terminations or exit costs. We may also be required to write-off additional inventory if our product build plans or usage of service inventory decline. Also, as our lead times from suppliers increase (due to the increasing complexity of the parts and components they provide) and the lead times demanded by our customers decrease (due to the time pressures they face when introducing new products or technology or bringing new facilities into production), we may be compelled to increase our commitments, and therefore our risk exposure, to inventory purchases to meet our customers' demands in a timely manner, and that inventory may need to be written-off if demand for the underlying product declines for any reason. Such additional write-offs could result in material charges.

In the past, we have recorded material charges related to the impairment of our goodwill and purchased intangible assets. Goodwill represents the excess of costs over the net fair value of net assets acquired in a business combination. Goodwill is not amortized, but is instead tested for impairment at least annually in accordance with authoritative guidance for goodwill. Purchased intangible assets with estimable useful lives are amortized over their respective estimated useful lives based on economic benefit if known or using the straight-line method, and are reviewed for impairment in accordance with authoritative guidance for long-lived assets. The valuation of goodwill and intangible assets requires assumptions and estimates of many critical factors, including revenue and market growth, operating cash flows, market multiples, and discount rates. A substantial decline in our stock price, or any other adverse change in market conditions, particularly if such change has the effect of changing one of the critical assumptions or estimates we previously used to calculate the value of our goodwill or intangible assets (and, as applicable, the amount of any previous impairment charge), could result in a change to the estimation of fair value that could result in an additional impairment charge.

Any such additional material charges, whether related to restructuring or goodwill or purchased intangible asset impairment, may have a material negative impact on our operating results and related financial statements.

# We are exposed to risks related to our financial arrangements with respect to receivables factoring and banking arrangements.

We enter into factoring arrangements with financial institutions to sell certain of our trade receivables and promissory notes from customers without recourse. In addition, we maintain bank accounts with several domestic and foreign financial institutions, any of which may prove not to be financially viable. If we were to stop entering into these factoring arrangements, our operating results, financial condition and cash flows could be adversely impacted by delays or failures in collecting trade receivables. However, by entering into these arrangements, and by engaging these financial institutions for banking services, we are exposed to additional risks. If any of these financial institutions experiences financial difficulties or is otherwise unable to honor the terms of our factoring or deposit arrangements, we may experience material financial losses due to the failure of such arrangements or a lack of access to our funds, any of which could have an adverse impact upon our operating results, financial condition and cash flows.

# We are subject to the risks of additional government actions in the event we were to breach the terms of any settlement arrangement into which we have entered.

In connection with the settlement of certain government actions and other legal proceedings related to our historical stock option practices, we have explicitly agreed as a condition to such settlements that we will comply with certain laws, such as the books and records provisions of the federal securities laws. If we were to violate any such law, we might not only be subject to the significant penalties applicable to such violation, but our past settlements may also be impacted by such violation, which could give rise to additional government actions or other legal proceedings. Any such additional actions or proceedings may require us to expend significant management time and incur significant accounting, legal and other expenses, and may divert attention and resources from the operation of our business. These expenditures and diversions, as well as an adverse resolution of any such action or proceeding, could have a material adverse effect on our business, financial condition and results of operations.

# General Commercial, Operational, Financial and Regulatory Risks

A majority of our annual revenues are derived from outside the United States, and we maintain significant operations outside the United States. We are exposed to numerous risks as a result of the international nature of our business and operations.

A majority of our annual revenues are derived from outside the United States, and we maintain significant operations outside the United States. We expect that these conditions will continue in the foreseeable future. Managing global operations and sites located throughout the world presents a number of challenges, including but not limited to:

- managing cultural diversity and organizational alignment;
- exposure to the unique characteristics of each region in the global market, which can cause capital equipment investment patterns to vary significantly from period to period;
- periodic local or international economic downturns;
- potential adverse tax consequences, including withholding tax rules that may limit the repatriation of our earnings, and higher effective income tax rates in foreign
  countries where we do business;
- compliance with customs regulations in the countries in which we do business;
- tariffs or other trade barriers (including those applied to our products or to parts and supplies that we purchase):
- political instability, natural disasters, legal or regulatory changes, acts of war or terrorism in regions where we have operations or where we do business:

- fluctuations in interest and currency exchange rates may adversely impact our ability to compete on price with local providers or the value of revenues we generate
  from our international business. Although we attempt to manage some of our near-term currency risks through the use of hedging instruments, there can be no
  assurance that such efforts will be adequate;
- longer payment cycles and difficulties in collecting accounts receivable outside of the United States:
- difficulties in managing foreign distributors (including monitoring and ensuring our distributors' compliance with applicable laws);
   and
- inadequate protection or enforcement of our intellectual property and other legal rights in foreign iurisdictions.

In addition, government controls, either by the United States or other countries, that restrict our business overseas or the import or export of our products or increase the cost of our operations through the imposition of tariffs or otherwise, could harm our business. For example, effective on October 30, 2018, the United States Department of Commerce added Fujian Jinhua Integrated Circuit Company, Ltd. ("JHICC") to its entity list, restricting exports of technology to JHICC without a license. As a result, unless JHICC is subsequently removed from the entity list, we will be unable to fulfill orders JHICC has made for our products, accept future orders placed by JHICC for our products, and provide services for any of our products already installed at JHICC.

Any of the factors above could have a significant negative impact on our business and results of operations.

#### We are exposed to risks associated with a weakening in the condition of the financial markets and the global economy.

Demand for our products is ultimately driven by the global demand for electronic devices by consumers and businesses. Economic uncertainty frequently leads to reduced consumer and business spending, which caused our customers to decrease, cancel or delay their equipment and service orders from us in the economic slowdown during fiscal year 2009. In addition, the tightening of credit markets and concerns regarding the availability of credit that accompanied that slowdown made it more difficult for our customers to raise capital, whether debt or equity, to finance their purchases of capital equipment, including the products we sell. Reduced demand, combined with delays in our customers' ability to obtain financing (or the unavailability of such financing), has at times in the past adversely affected our product and service sales and revenues and therefore has harmed our business and operating results, and our operating results and financial condition may again be adversely impacted if economic conditions decline from their current levels.

In addition, a decline in the condition of the global financial markets could adversely impact the market values or liquidity of our investments. Our investment portfolio includes corporate and government securities, money market funds and other types of debt and equity investments. Although we believe our portfolio continues to be comprised of sound investments due to the quality and (where applicable) credit ratings, a decline in the capital and financial markets would adversely impact the market value of our investments and their liquidity. If the market value of such investments were to decline, or if we were to have to sell some of our investments under illiquid market conditions, we may be required to recognize an impairment charge on such investments or a loss on such sales, either of which could have an adverse effect on our financial condition and operating results.

If we are unable to timely and appropriately adapt to changes resulting from difficult macroeconomic conditions, our business, financial condition or results of operations may be materially and adversely affected.

We might be involved in claims or disputes related to intellectual property or other confidential information that may be costly to resolve, prevent us from selling or using the challenged technology and seriously harm our operating results and financial condition.

As is typical in the industries in which we serve, from time to time we have received communications from other parties asserting the existence of patent rights, copyrights, trademark rights or other intellectual property rights which they believe cover certain of our products, processes, technologies or information. In addition, we occasionally receive notification from customers who believe that we owe them indemnification or other obligations related to intellectual property claims made against such customers by third parties. With respect to intellectual property infringement disputes, our customary practice is to evaluate such infringement assertions and to consider whether to seek licenses where appropriate. However, there can be no assurance that licenses can be obtained or, if obtained, will be on acceptable terms or that costly litigation or other administrative proceedings will not occur. The inability to obtain necessary licenses or other rights on reasonable terms could seriously harm our results of operations and financial condition. Furthermore, we may potentially be subject to claims by customers, suppliers or other business partners, or by governmental law enforcement agencies, related to our receipt, distribution and/or use of third-party intellectual property or confidential information. Legal proceedings and claims, regardless of their merit, and associated internal investigations with respect to intellectual property or confidential information disputes are often expensive to prosecute, defend or conduct; may divert management's attention and other company resources; and/or may result in restrictions on our ability to sell our products, settlements on significantly adverse terms or adverse judgments for

damages, injunctive relief, penalties and fines, any of which could have a significant negative effect on our business, results of operations and financial condition. There can be no assurance regarding the outcome of future legal proceedings, claims or investigations. The instigation of legal proceedings or claims, our inability to favorably resolve or settle such proceedings or claims, or the determination of any adverse findings against us or any of our employees in connection with such proceedings or claims could materially and adversely affect our business, financial condition and results of operations, as well as our business reputation.

#### We are exposed to various risks related to the legal, regulatory and tax environments in which we perform our operations and conduct our business.

We are subject to various risks related to compliance with new, existing, different, inconsistent or even conflicting laws, rules and regulations enacted by legislative bodies and/or regulatory agencies in the countries in which we operate and with which we must comply, including environmental, safety, antitrust, anti-corruption/anti-bribery, unclaimed property and export control regulations. Our failure or inability to comply with existing or future laws, rules or regulations, or changes to existing laws, rules or regulations (including changes that result in inconsistent or conflicting laws, rules or regulations), in the countries in which we operate could result in violations of contractual or regulatory obligations that may adversely affect our operating results, financial condition and ability to conduct our business. From time to time, we may receive inquiries or audit notices from governmental or regulatory bodies, or we may participate in voluntary disclosure programs, related to legal, regulatory or tax compliance matters, and these inquiries, notices or programs may result in significant financial cost (including investigation expenses, defense costs, assessments and penalties), reputational harm and other consequences that could materially and adversely affect our operating results and financial condition.

Our properties and many aspects of our business operations are subject to various domestic and international environmental laws and regulations, including those that control and restrict the use, transportation, emission, discharge, storage and disposal of certain chemicals, gases and other substances. Any failure to comply with applicable environmental laws, regulations or requirements may subject us to a range of consequences, including fines, suspension of certain of our business activities, limitations on our ability to sell our products, obligations to remediate environmental contamination, and criminal and civil liabilities or other sanctions. In addition, changes in environmental regulations (including regulations relating to climate change and greenhouse gas emissions) could require us to invest in potentially costly pollution control equipment, alter our manufacturing processes or use substitute (potentially more expensive and/or rarer) materials. Further, we use hazardous and other regulated materials that subject us to risks of strict liability for damages caused by any release, regardless of fault. We also face increasing complexity in our manufacturing, product design and procurement operations as we adjust to new and prospective requirements relating to the materials composition of our products, including restrictions on lead and other substances and requirements to track the sources of certain metals and other materials. The cost of complying, or of failing to comply, with these and other regulatory restrictions or contractual obligations could adversely affect our operating results, financial condition and ability to conduct our business.

In addition, we may from time to time be involved in legal proceedings or claims regarding employment, immigration, contracts, product performance, product liability, antitrust, environmental regulations, securities, unfair competition and other matters. These legal proceedings and claims, regardless of their merit, may be time-consuming and expensive to prosecute or defend, divert management's attention and resources, and/or inhibit our ability to sell our products. There can be no assurance regarding the outcome of current or future legal proceedings or claims, which could adversely affect our operating results, financial condition and ability to operate our business.

# We depend on key personnel to manage our business effectively, and if we are unable to attract, retain and motivate our key employees, our sales and product development could be harmed.

Our employees are vital to our success, and our key management, engineering and other employees are difficult to replace. We generally do not have employment contracts with our key employees. Further, we do not maintain key person life insurance on any of our employees. The expansion of high technology companies worldwide has increased demand and competition for qualified personnel. If we are unable to attract and retain key personnel, or if we are not able to attract, assimilate and retain additional highly qualified employees to meet our current and future needs, our business and operations could be harmed.

We outsource a number of services to third-party service providers, which decreases our control over the performance of these functions. Disruptions or delays at our third-party service providers could adversely impact our operations.

We outsource a number of services, including our transportation, information systems management and logistics management of spare parts and certain accounting and procurement functions, to domestic and overseas third-party service providers. While outsourcing arrangements may lower our cost of operations, they also reduce our direct control over the services rendered. It is uncertain what effect such diminished control will have on the quality or quantity of products delivered or services rendered, on our ability to quickly respond to changing market conditions, or on our ability to ensure compliance with all applicable domestic and foreign laws and regulations. In addition, many of these outsourced service providers, including certain hosted software applications that we use for confidential data storage, employ cloud computing technology for such storage. These providers' cloud computing systems may be susceptible to "cyber incidents," such as intentional cyber attacks aimed at theft of sensitive data or inadvertent cyber-security compromises, which are outside of our control. If we do not effectively develop and manage our outsourcing strategies, if required export and other governmental approvals are not timely obtained, if our third-party service providers do not perform as anticipated, or do not adequately protect our data from cyber-related security breaches, or if there are delays or difficulties in enhancing business processes, we may experience operational difficulties (such as limitations on our ability to ship products), increased costs, manufacturing or service interruptions or delays, loss of intellectual property rights or other sensitive data, quality and compliance issues, and challenges in managing our product inventory or recording and reporting financial and management information, any of which could materially and adversely affect our business, financial condition and results of operations.

#### We are exposed to risks related to cybersecurity threats and cyber incidents.

In the conduct of our business, we collect, use, transmit and store data on information systems. This data includes confidential information, transactional information and intellectual property belonging to us, our customers and our business partners, as well as personally-identifiable information of individuals. We allocate significant resources to network security, data encryption and other measures to protect our information systems and data from unauthorized access or misuse. Despite our ongoing efforts to enhance our network security measures, our information systems are susceptible to computer viruses, cyber-related security breaches and similar disruptions from unauthorized intrusions, tampering, misuse, criminal acts, including phishing, or other events or developments that we may be unable to anticipate or fail to mitigate and are subject to the inherent vulnerabilities of network security measures. We have experienced cyber-related attacks in the past, and may experience cyber-related attacks in the future. Our security measures may also be breached due to employee errors, malfeasance, or otherwise. Third parties may also attempt to influence employees, users, suppliers or customers to disclose sensitive information in order to gain access to our, our customers' or business partners' data. Because the techniques used to obtain unauthorized access to the information systems change frequently, and may not be recognized until launched against a target, we may be unable to anticipate these techniques or to implement adequate preventative measures.

Any of such occurrences could result in disruptions to our operations; misappropriation, corruption or theft of confidential information, including intellectual property and other critical data, of KLA, our customers and other business partners; misappropriation of funds and company assets; reduced value of our investments in research, development and engineering; litigation with, or payment of damages to, third parties; reputational damage; costs to comply with regulatory inquiries or actions; data privacy issues; costs to rebuild our internal information systems; and increased cybersecurity protection and remediation costs.

We carry insurance that provides some protection against the potential losses arising from a cybersecurity incident but it will not likely cover all such losses, and the losses that it does not cover may be significant.

We rely upon certain critical information systems for our daily business operations. Our inability to use or access our information systems at critical points in time could unfavorably impact our business operations.

Our global operations are dependent upon certain information systems, including telecommunications, the internet, our corporate intranet, network communications, email and various computer hardware and software applications. System failures or malfunctioning, such as difficulties with our customer relationship management ("CRM") system, could disrupt our operations and our ability to timely and accurately process and report key components of our financial results. Our enterprise resource planning ("ERP") system is integral to our ability to accurately and efficiently maintain our books and records, record transactions, provide critical information to our management, and prepare our financial statements. Any disruptions or difficulties that may occur in connection with our ERP system or other systems (whether in connection with the regular operation, periodic enhancements, modifications or upgrades of such systems or the integration of our acquired businesses into such systems) could adversely affect our ability to complete important business processes, such as the evaluation of our internal control over financial reporting pursuant to Section 404 of the Sarbanes-Oxley Act of 2002. Any of these events could have an adverse effect on our business, operating results and financial condition.

Acquisitions are an important element of our strategy but, because of the uncertainties involved, we may not find suitable acquisition candidates and we may not be able to successfully integrate and manage acquired businesses. We are also exposed to risks in connection with strategic alliances into which we may enter.

In addition to our efforts to develop new technologies from internal sources, part of our growth strategy is to pursue acquisitions and acquire new technologies from external sources. As part of this effort, in February 2019, we announced that we had consummated our acquisition of Orbotech. We may also enter into definitive agreements for and consummate acquisitions of, or significant investments in, businesses with complementary products, services and/or technologies. There can be no assurance that we will find suitable acquisition candidates or that acquisitions we complete will be successful. In addition, we may use equity to finance future acquisitions, which would increase our number of shares outstanding and be dilutive to current stockholders.

If we are unable to successfully integrate and manage acquired businesses, if the costs associated with integrating the acquired business exceeds our expectations, or if acquired businesses perform poorly, then our business and financial results may suffer. It is possible that the businesses we have acquired, as well as businesses that we may acquire in the future, may perform worse than expected or prove to be more difficult to integrate and manage than anticipated. In addition, we may lose key employees of the acquired companies. As a result, risks associated with acquisition transactions may lead to a material adverse effect on our business and financial results for a number of reasons, including:

- we may have to devote unanticipated financial and management resources to acquired businesses:
- the combination of businesses may result in the loss of key personnel or an interruption of, or loss of momentum in, the activities of our company and/or the acquired business:
- we may not be able to realize expected operating efficiencies or product integration benefits from our acquisitions;
- we may experience challenges in entering into new market segments for which we have not previously manufactured and sold products;
- we may face difficulties in coordinating geographically separated organizations, systems and facilities:
- the customers, distributors, suppliers, employees and others with whom the companies we acquire have business dealings may have a potentially adverse reaction to the acquisition;
- we may have difficulty implementing a cohesive framework of internal controls over the entire organization;
- we may have to write-off goodwill or other intangible assets;
- we may incur unforeseen obligations or liabilities in connection with acquisitions.

At times, we may also enter into strategic alliances with customers, suppliers or other business partners with respect to development of technology and intellectual property. These alliances typically require significant investments of capital and exchange of proprietary, highly sensitive information. The success of these alliances depends on various factors over which we may have limited or no control and requires ongoing and effective cooperation with our strategic partners. Mergers and acquisitions and strategic alliances are inherently subject to significant risks, and the inability to effectively manage these risks could materially and adversely affect our business, financial condition and operating results.

Disruption of our manufacturing facilities or other operations, or in the operations of our customers, due to earthquake, flood, other natural catastrophic events, health epidemics or terrorism could result in cancellation of orders, delays in deliveries or other business activities, or loss of customers and could seriously harm our business.

We have significant manufacturing operations in the United States, Singapore, Israel, Germany and China. In addition, our business is international in nature, with our sales, service and administrative personnel and our customers located in numerous countries throughout the world. Operations at our manufacturing facilities and our assembly subcontractors, as well as our other operations and those of our customers, are subject to disruption for a variety of reasons, including work stoppages, acts of war, terrorism, health epidemics, fire, earthquake, volcanic eruptions, energy shortages, flooding or other natural disasters. Such disruption could cause delays in, among other things, shipments of products to our customers, our ability to perform services requested by our customers, or the installation and acceptance of our products at customer sites. We cannot provide any assurance that alternate means of conducting our operations (whether through alternate production capacity or service providers or otherwise) would be available if a major disruption were to occur or that, if such alternate means were available, they could be obtained on favorable terms.

In addition, as part of our cost-cutting actions, we have consolidated several operating facilities. Our California operations are now primarily centralized in our Milpitas facility. The consolidation of our California operations into a single campus could further concentrate the risks related to any of the disruptive events described above, such as acts of war or terrorism, earthquakes, fires or other natural disasters, if any such event were to impact our Milpitas facility.

We are predominantly uninsured for losses and interruptions caused by terrorist acts and acts of war. If international political instability continues or increases, our business and results of operations could be harmed.

The threat of terrorism targeted at, or acts of war in, the regions of the world in which we do business increases the uncertainty in our markets. Any act of terrorism or war that affects the economy or the industries we serve could adversely affect our business. Increased international political instability in various parts of the world, disruption in air transportation and further enhanced security measures as a result of terrorist attacks may hinder our ability to do business and may increase our costs of operations. We maintain significant operations in Israel. Since the establishment of the State of Israel in 1948, a number of armed conflicts have taken place between Israel and its Arab neighbors, and a state of hostility varying in degree and intensity, has led to security and economic challenges for Israel. In addition, some our employees in Israel are obligated to perform annual reserve duty in the Israel Defense Forces, and may be called to active military duty in emergency circumstances. We cannot assess the impact that emergency conditions in Israel in the future may have on our business, operations, financial condition or results of operations, but it could be material. Instability in any region could directly impact our ability to operate our business (or our customers' ability to operate their businesses), cause us to incur increased costs in transportation, make such transportation unreliable, increase our insurance costs, and cause international currency markets to fluctuate. Instability in the region could also have the same effects on our suppliers and their ability to timely deliver their products. If international political instability continues or increases in any region in which we do business, our business and results of operations could be harmed. We are predominantly uninsured for losses and interruptions caused by terrorist acts and acts of war.

#### We self-insure certain risks including earthquake risk. If one or more of the uninsured events occurs, we could suffer major financial loss.

We purchase insurance to help mitigate the economic impact of certain insurable risks; however, certain risks are uninsurable, are insurable only at significant cost or cannot be mitigated with insurance. Accordingly, we may experience a loss that is not covered by insurance, either because we do not carry applicable insurance or because the loss exceeds the applicable policy amount or is less than the deductible amount of the applicable policy. For example, we do not currently hold earthquake insurance. An earthquake could significantly disrupt our manufacturing operations, a significant portion of which are conducted in California, an area highly susceptible to earthquakes. It could also significantly delay our research and engineering efforts on new products, much of which is also conducted in California. We take steps to minimize the damage that would be caused by an earthquake, but there is no certainty that our efforts will prove successful in the event of an earthquake. We self-insure earthquake risks because we believe this is a prudent financial decision based on our cash reserves and the high cost and limited coverage available in the earthquake insurance market. Certain other risks are also self-insured either based on a similar cost-benefit analysis, or based on the unavailability of insurance. If one or more of the uninsured events occurs, we could suffer major financial loss.

We are exposed to foreign currency exchange rate fluctuations. Although we hedge certain currency risks, we may still be adversely affected by changes in foreign currency exchange rates or declining economic conditions in these countries.

We have some exposure to fluctuations in foreign currency exchange rates, primarily the Japanese Yen and the euro. We have international subsidiaries that operate and sell our products globally. In addition, an increasing proportion of our manufacturing activities are conducted outside of the United States, and many of the costs associated with such activities are denominated in foreign currencies. We routinely hedge our exposures to certain foreign currencies with certain financial institutions in an effort to minimize the impact of certain currency exchange rate fluctuations, but these hedges may be inadequate to protect us from currency exchange rate fluctuations. To the extent that these hedges are inadequate, or if there are significant currency exchange rate fluctuations in currencies for which we do not have hedges in place, our reported financial results or the way we conduct our business could be adversely affected. Furthermore, if a financial counterparty to our hedges experiences financial difficulties or is otherwise unable to honor the terms of the foreign currency hedge, we may experience material financial losses.

We are exposed to fluctuations in interest rates and the market values of our portfolio investments; impairment of our investments could harm our earnings. In addition, we and our stockholders are exposed to risks related to the volatility of the market for our common stock.

Our investment portfolio primarily consists of both corporate and government debt securities that are susceptible to changes in market interest rates and bond yields. As market interest rates and bond yields increase, those securities with a lower yield-at-cost show a mark-to-market unrealized loss. We believe we have the ability to realize the full value of all these investments upon maturity. However, an impairment of the fair market value of our investments, even if unrealized, must be reflected in our financial statements for the applicable period and may therefore have a material adverse effect on our results of operations for that period.

In addition, the market price for our common stock is volatile and has fluctuated significantly during recent years. The trading price of our common stock could continue to be highly volatile and fluctuate widely in response to various factors, including without limitation conditions in the semiconductor industry and other industries in which we operate, fluctuations in the global economy or capital markets, our operating results or other performance metrics, or adverse consequences experienced by us as a result of any of the risks described elsewhere in this Item 1A. Volatility in the market price of our common stock could cause an investor in our common stock to experience a loss on the value of their investment in us and could also adversely impact our ability to raise capital through the sale of our common stock or to use our common stock as consideration to acquire other companies.

#### We are exposed to risks in connection with tax and regulatory compliance audits in various jurisdictions.

We are subject to tax and regulatory compliance audits (such as related to customs or product safety requirements) in various jurisdictions, and such jurisdictions may assess additional income or other taxes, penalties, fines or other prohibitions against us. Although we believe our tax estimates are reasonable and that our products and practices comply with applicable regulations, the final determination of any such audit and any related litigation could be materially different from our historical income tax provisions and accruals related to income taxes and other contingencies. In addition to and in connection with the ITA Assessment described in more detail in Note 12, "Income Taxes", there is an ongoing criminal investigation against our Orbotech subsidiary, certain of its employees and its tax consultant that began prior to the Acquisition Date. We can make no assurances that an indictment will not result from the criminal investigation. The results of an audit or litigation could have a material adverse effect on our operating results or cash flows in the period or periods for which that determination is made.

#### A change in our effective tax rate can have a significant adverse impact on our business.

We earn profits in, and are therefore potentially subject to taxes in, the U.S. and numerous foreign jurisdictions, including Singapore, Israel and the Cayman Islands, the countries in which we earn the majority of our non-U.S. profits. Due to economic, political or other conditions, tax rates in those jurisdictions may be subject to significant change. A number of factors may adversely impact our future effective tax rates, such as the jurisdictions in which our profits are determined to be earned and taxed; changes in the tax rates imposed by those jurisdictions; expiration of tax holidays in certain jurisdictions that are not renewed; the resolution of issues arising from tax audits with various tax authorities; changes in the valuation of our deferred tax assets and liabilities; adjustments to estimated taxes upon finalization of various tax returns; increases in expenses not deductible for tax purposes, including write-offs of acquired in-process research and development and impairment of goodwill in connection with acquisitions; changes in available tax credits; changes in stock-based compensation expense; changes in tax laws or the interpretation of such tax laws; changes in generally accepted accounting principles; and the repatriation of earnings from outside the United States for which we have not previously provided for United States taxes. A change in our effective tax rate can materially and adversely impact our results from operations.

In addition, recent changes to U.S. tax laws will significantly impact how U.S. multinational corporations are taxed on foreign earnings. Numerous countries are evaluating their existing tax laws due in part, to recommendations made by the Organization for Economic Co-operation and Development's ("OECD's") Base Erosion and Profit Shifting ("BEPS") project. As of December 31, 2018, we have completed our accounting for the tax effects of the Act, which was enacted into law on December 22, 2017. However, the recent U.S tax law changes are subject to future guidance from U.S. federal and state governments, such as the Treasury Department and/or the IRS. Any future guidance can change our tax liability. A significant portion of the income taxes due to the enactment of the Act is payable by us over a period of eight years. As a result, our cash flows from operating activities will be adversely impacted until tax liability is paid in full.

Compliance with federal securities laws, rules and regulations, as well as NASDAQ requirements, has become increasingly complex, and the significant attention and expense we must devote to those areas may have an adverse impact on our business.

Federal securities laws, rules and regulations, as well as NASDAQ rules and regulations, require companies to maintain extensive corporate governance measures, impose comprehensive reporting and disclosure requirements, set strict independence and financial expertise standards for audit and other committee members and impose civil and criminal penalties for companies and their chief executive officers, chief financial officers and directors for securities law violations. These laws, rules and regulations have increased, and in the future are expected to continue to increase, the scope, complexity and cost of our corporate governance, reporting and disclosure practices, which could harm our results of operations and divert management's attention from business operations.

A change in accounting standards or practices or a change in existing taxation rules or practices (or changes in interpretations of such standards, practices or rules) can have a significant effect on our reported results and may even affect reporting of transactions completed before the change is effective.

New accounting standards and taxation rules and varying interpretations of accounting pronouncements and taxation rules have occurred and will continue to occur in the future. Changes to (or revised interpretations or applications of) existing accounting standards or tax rules or the questioning of current or past practices may adversely affect our reported financial results or the way we conduct our business. For example, in February 2016, the FASB issued an accounting standard update which amends the existing accounting standards for leases. Adoption of new standards may require changes to our processes, accounting systems, and internal controls. Difficulties encountered during adoption could result in internal control deficiencies or delay the reporting of our financial results. In addition, the passing of the Act in December 2017 caused us to significantly increase our provision for income taxes, which had a material adverse effect on our net income for the fiscal year ended June 30, 2018. Further interpretations of the Act from the government and regulatory organizations may change our tax expense provided for our transitional tax liability and deferred tax adjustments as well as our provision liability or accounting treatment of the provisional liability which may potentially affect the measurement of these balances or potentially give rise to new deferred tax amounts.

#### 

# **Equity Repurchase Plans**

The following is a summary of stock repurchases for the three months endedMarch 31, 2019:

<u>Period</u>	Total Number of Shares Purchased	Average Price Paid per Share	pproximate Dollar Value that y Yet Be Purchased Under the Plans or Programs <sup>(1)</sup>
January 1, 2019 to January 31, 2019	_	\$ _	\$ 411,707,942
February 1, 2019 to February 28, 2019	542,900	\$ 114.88	\$ 1,349,341,805
March 1, 2019 to March 31, 2019	1,227,300	\$ 117.05	\$ 1,205,690,809
Total	1,770,200	\$ 116.38	

<sup>(1)</sup> The stock repurchase program has no expiration date and may be suspended at any time. Future repurchases of our common stock under our repurchase program may be effected through various different repurchase transaction structures, including isolated open market transactions or systematic repurchase plans.

# ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

# ITEM 5. OTHER INFORMATION

None.

# ITEM 6. EXHIBITS

		Incorporated by Reference			
Exhibit Number	Exhibit Description	Form	File Number	Exhibit Number	Filing Date
<u>4.1</u>	Indenture, dated November 6, 2014, by and between KLA-Tencor Corporation and Wells Fargo Bank, National Association, as Trustee	8-K	000-09992	4.1	11/7/2014
<u>4.2</u>	Form of Officer's Certificate setting forth the terms of the 4.100% Senior Notes due 2029 and 5.000% Senior Notes due 2049 (with form of Notes attached)	8-K	000-09992	4.2	3/20/2019
<u>10.1</u>	Employment Agreement dated February 20, 2019 by and between Orbotech Ltd. and Amichai Steimberg*+				
10.2	Employment Agreement dated February 20, 2019 by and between Orbotech Ltd. and Asher Levy*+				
10.3	Calendar Year 2019 Executive Incentive Plan*+				
10.4	Equity Remuneration Plan for Key Employees of Orbotecth Ltd. and its Affiliates and Subsidiaries*	S-8	333-230112	10.1	3/7/2019
<u>10.5</u>	Orbotech Ltd. 2010 Equity-Based Incentive Plan*	S-8	333-230112	10.2	3/7/2019
<u>10.6</u>	Orbotech Ltd. 2015 Equity-Based Incentive Plan*	S-8	333-230112	10.3	3/7/2019
<u>31.1</u>	Certification of Chief Executive Officer under Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934				
31.2	Certification of Chief Financial Officer under Rule 13a-14(a) /15d-14(a) of the Securities Exchange Act of 1934				
<u>32</u>	Certification of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. Section 1350				
101.INS	XBRL Instance Document				
101.SCH	XBRL Taxonomy Extension Schema Document				
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document				
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document				
101.LAB	XBRL Taxonomy Extension Label Linkbase Document				
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document				

 $<sup>\</sup>boldsymbol{\ast}$  Denotes a management contract, plan or arrangement.

<sup>+</sup> Confidential treatment has been requested as to a portion of this exhibit.

#### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

	KLA-Tencor Corporation (Registrant)
May 8, 2019	/s/ RICHARD P. WALLACE
(Date)	Richard P. Wallace
	President and Chief Executive Officer (Principal Executive Officer)
May 8, 2019	/s/ BREN D. HIGGINS
(Date)	Bren D. Higgins
	Executive Vice President and Chief Financial Officer (Principal Financial Officer)
May 8, 2019	/s/ VIRENDRA A. KIRLOSKAR
(Date)	Virendra A. Kirloskar
	Senior Vice President and Chief Accounting Officer (Principal Accounting Officer)

# KLA-TENCOR CORPORATION EXHIBIT INDEX

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<u>4.2</u>	Form of Officer's Certificate setting forth the terms of the 4.100% Senior Notes due 2029 and 5.000% Senior Notes due 2049 (with form of Notes attached)	8-K	000-09992	4.2	3/20/2019		
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 $<sup>\</sup>boldsymbol{\ast}$  Denotes a management contract, plan or arrangement.

<sup>+</sup> Confidential treatment has been requested as to a portion of this exhibit.

#### **EMPLOYMENT AGREEMENT**

THIS AGREEMENT is entered into as of February 20, 2019 by and between Orbotech Ltd., registration # 520035213, of 7 Sanhedrin Boulevard, North Industrial Zone, Yavne 8110101 Israel (the "Company") and Amichai Steimberg, Israeli ID No. \_\_\_\_\_\_\_ of \_\_\_\_\_\_, Israel ("Employee").

WHEREAS: The Employee has been employed by the Company since November 1, 1992.

WHEREAS: The Company and Employee entered into an Employment Agreement dated November 29, 2012 (the "Original Employment Agreement").

WHEREAS: The Company and KLA-Tencor Corporation ("KLA") have entered into an Agreement and Plan of Merger dated March 18, 2018 (as may be amended from time to time, the "Merger Agreement"), pursuant to which the Company will become a wholly owned subsidiary of KLA (the consummation of the transactions contemplated by the Merger Agreement, the "Merger," and the date of such Merger, the "Closing Date").

**WHEREAS:** In connection with the Merger, the Company desires to continue the employment of Employee and Employee desires to continue such employment, on the terms and conditions hereinafter set forth.

NOW, THEREFORE, in consideration of the respective agreements of the parties contained herein, the parties agree as follows:

#### 1. Employment

- 1.1 Contingent upon the consummation of the Merger, this Agreement will commence and become effective on the Closing Date.
- On the Closing Date, Employee shall continue to be employed and will from that date be employed in the position of President and Chief Operating Officer of the Company; provided, however, that Employee's title shall change to Chief Executive Officer of the Company (the "Position") at such time as Asher Levy transitions to Senior Advisor of the Company, which transition by Asher is expected to occur on the later of (i) March 1, 2019 and (ii) the first day of the second month following the month in which Closing occurs. On the earlier of: (i) 18 months following the Closing Date, or (ii) July 1, 2020 (the earlier of such two dates, the "Transition Date"), Employee's Position will transition to Senior Advisor of the Company. Employee's supervisor will be Asher Levy, the Chief Executive Officer of the Company for as long as Mr. Levy serves as Chief Executive Officer of the Company. Following Mr. Levy ceasing to hold the position of Chief Executive Officer of the Company, Employee's supervisor will be the President and Chief Executive Officer of KLA, Richard P. Wallace, or his successor holding such position. For the avoidance of any doubt, it is hereby clarified that for any and all purposes, Employee's seniority shall be calculated as of November 1, 1992.
- 1.3 Employee shall perform the duties, undertake the responsibilities and exercise the authority as determined from time to time by the Company or KLA and as customarily performed, undertaken and exercised by persons situated in the applicable similar capacity. Employee's duties and responsibilities hereunder may also include other services performed for affiliates of the Company.
- During the course of employment with the Company, Employee shall honestly, diligently, skillfully and faithfully serve the Company. Employee undertakes to devote his professional efforts and the best of Employee's qualifications and skills to promoting the business and affairs of the Company on a full-time basis or otherwise, in each case, as described herein, and further undertakes to loyally and fully comply with the decisions of the Board of Directors. Employee shall at all times act in a manner suitable of Employee's position and status in the Company.

- 1.5 Employee promises to promptly notify the Company regarding any matter or subject in respect of which he has a personal interest which might create a conflict of interest with his position in the Company.
- 1.6 Employee shall be employed on a full time basis, regularly 5 days a week (Sunday to Thursday), 42 hours a week. Saturday shall be the weekly day of rest of Employee. Employee will also work outside of regular working hours and outside of regular working days, as may be reasonably required by the Company from time to time. Following the Transition Date, the Employee shall be employed as a Senior Advisor on a part time basis, one day a week, eight hours per week.
- 1.7 It is agreed that the Employee's position is a management one and/or which requires a special degree of personal trust, as defined in the Working Hours and Rest Law, 1951 (the "Working Hours and Rest Law"). Therefore, Employee shall not be granted any other compensation or payment other than expressly specified in this Agreement. Employee undertakes not to claim that the Working Hours and Rest Law applies to Employee's employment with the Company. Employee acknowledges the legitimacy of the Company's requirement to work "overtime" or during "weekly rest-hours" without being entitled to "overtime compensation" or "weekly rest-hour compensation" (as these terms are defined in the Working Hours and Rest Law), and Employee undertakes to reasonably comply with such requirements of the Company. Employee acknowledges that the compensation to which Employee is entitled pursuant to this Agreement constitutes adequate compensation for Employee's work during "overtime" or "weekly rest-hours".
- 1.8 Employee may be required to travel abroad from time to time, as part of Employee's position, and without entitlement to additional compensation for such traveling. All travel outside of Israel will be at least business class, to the extent such service is offered on such flight.
- 1.9 Employee hereby represents to the Company that there are no other undertakings or agreements preventing, restricting or limiting Employee from making the commitments described herein and performing the obligations under this Agreement, and Employee confirms that he is qualified and able to perform these obligations.
- During the term of this Agreement, Employee shall not be engaged in any other employment nor directly or indirectly engage in any other business activities in any capacity for any other person, firm or company whether or not for consideration, without the express prior written consent of KLA; provided, however, that Employee may continue to (i) serve as a passive investor in the equity of any business, provided that Employee is not otherwise involved in running such business and (ii) act in any advisory capacity with respect to any business for which Employee currently serves in such role as of the Closing Date, or serve in any similar role with respect to any similar business, provided that no such business is a Competitor (as defined below). Notwithstanding the foregoing, during the period during which Employee holds the Position, he may serve as a director on the board of directors of up to two public or private companies, provided the applicable company is not a Competitor. Following the Transition Date, Employee may serve as a director on any number of public or private companies without the need to obtain the Company's or KLA's consent.
- 1.11 For purposes of this Agreement, "Competitor" means any entity that through one or more direct or indirect parent companies or subsidiaries, derives revenue primarily from developing, manufacturing, designing, selling, reselling, licensing, leasing, servicing or distributing a Competing Product. A "Competing Product" means (i) inspection, metrology, defect review or process monitoring or control solutions for customers engaged in integrated circuit manufacturing, wafer manufacturing, reticle production, advanced semiconductor packaging, light emitting diode production, power device production, development of compound semiconductors, data storage media/head manufacturing, or microelectromechanical systems ("MEMS") manufacturing, (ii) inspection, test, measurement or process monitoring or control solutions for customers engaged in the production of printed circuit boards or flat panel displays, and (iii) etch, physical vapor deposition, chemical vapor deposition or molecular vapor deposition

- equipment for use in the manufacture of semiconductor devices, such as MEMS, advanced semiconductor packaging, power and radio frequency devices and high brightness light emitting diode devices.
- 1.12 Subject to section 4 below and unless Employee and the Company agree otherwise in writing, this Agreement and Employee's employment with the Company shall terminate on December 31, 2020 (the "Termination Date"). Nothing contained herein shall bind the Company to continue to employ the Employee or bind the Employee to continue to work for the Company until the Termination Date.

#### 2. Salary

- 2.1 Immediately following the Closing Date, the Company agrees to pay or cause to be paid to Employee during the term of this Agreement a gross salary of NIS 157,464 (one hundred and fifty-seven thousand four hundred and sixty-four New Israeli Shekels) per month (the "Salary"). On the Transition Date, the Salary will be changed to \$15,000 (fifteen thousand United States Dollars) per month, payable in New Israeli Shekels at the representative rate of exchange published by the Bank of Israel (the "Representative Rate of Exchange") as last published prior to the Transition Date.
- 2.2 The Salary will be paid no later than the 9<sup>th</sup> day of each month, one month in arrears, subject to deduction of any and all taxes and charges applicable to Employee. Employee shall notify the Company of any change which may affect Employee's tax liability.

# 3. Employee

#### **Benefits**

#### 3.1 <u>Pension Plan</u>.

The Company shall insure the Employee under an accepted 'Managers' Insurance' plan (the "Managers' Insurance Policy"), a Pension Fund (the "Pension Fund") or a combination of both, at Employee's choice, according to the following rates and conditions, it being agreed that the following percentages of the Employee's Salary shall be contributed by the Company whether or not they are recognized as an expense of the Company for tax purposes and, to the extent such contributions or any portion thereof shall be deemed taxable income of the Employee, they will be "grossed up" by the Company so that the Employee's net income shall not be adversely affected:

-		
3.1.1	Managers' Policy:	Insurance
	3.1.1.1	Disability Insurance - The Company, at its own discretion and expense, shall purchase a disability insurance, under normal and acceptable conditions, which would insure 75% of the Salary (the " <b>Disability Insurance</b> "). The Company's contribution for Disability Insurance shall, in no circumstances, exceed the amount of $2\frac{1}{2}$ % of the Salary.
	3.1.1.2	Severance - an amount equal to 81/3% of the Salary;
	3.1.1.3	Company's contribution towards pension - the difference between 6.5% of the Salary and the actual percentage of the Salary contributed towards Disability Insurance, provided that the Company's contribution towards pension shall not be lesser than 5% of the Salary.
	3.1.1.4	Employee's contribution towards pension – 6% of the Salary.

- 3.1.2 <u>Pension Fund</u>: Severance an amount equal to 81/3% of the Salary; Pension an amount equal to 6.5% of the Salary. In addition, the Company will deduct from Employee's monthly paycheck a sum equal to 6% of the Salary as Employee's contribution.
- 3.2 Employee shall be entitled to instruct the Company to change Employee's contributions for pension to up to 7%.

- 3.3 Employee hereby agrees and acknowledges that the payments that the Company shall make to the abovementioned Managers' Insurance Policy and/or Pension Fund shall be in addition to the severance payments under Section 4.6 below but instead of any other severance pay to which Employee or Employee's heirs shall be entitled to receive from the Company with respect to the Salary from which these payments were made and the period during which they were made, in accordance with Section 14 of the Severance Pay Law 5723-1963, in accordance with the directives of the expansion order regarding pension insurance in the industry field. The Employee shall be entitled to all amounts accrued in such insurance policies and/or pension funds, including on account of severance, in the event of termination of employment, however arising.
- 3.4 <u>Sick Leave</u>. Employee will be entitled to sick leave as provided by law, provided however, that the Employee shall be entitled to full pay for any sick leave from the first day (inclusive). In the event that Employee receives payment of Disability Insurance, Employee will not be entitled to sick leave payments for the same time period.
- 3.5 <u>Annual Recreation Allowance (*Dme'i Havra'a*)</u>. Employee shall be entitled to an annual recreation allowance, according to the applicable expansion order, but not less than NIS 7,200 (seven thousand two hundred and seven New Israeli Shekels) per year, which amount shall be paid to Employee in cash.
- 3.6 <u>Vacation</u>. Employee shall be entitled to an annual vacation of 24 working days at full pay, in addition to national holidays in Israel. The dates of vacation will be coordinated between Employee and the Company. Subject to the provision of due and reasonable prior notice, the Company may require Employee to take vacation leave in accordance with applicable law. Employee may accrue vacation time up to the maximum permitted by the Company's policy as the policy may be amended from time to time. All accumulated vacation days will be redeemed in cash upon termination of employment.
- 3.7 <u>Educational Fund (*Keren Hishtalmut*)</u>. The Company will contribute to a recognized educational fund an amount equal to 7.5% of the Salary and will deduct from each monthly payment and contribute to such education fund an additional amount equal to 2.5% of the Salary. Employee shall bear all taxes resulting from contributions made to the educational fund in excess of the recognized ceiling for tax purposes.

#### 3.8 <u>Company Car</u>.

- 3.8.1 The Company shall provide Employee with a motor vehicle of a make, model, and class no less than the current motor vehicle at his disposal, which shall be leased by the Company for use by Employee in accordance with Company policy in effect at the Closing Date. The Company will bear all expenses relating to the use of the motor vehicle, including maintenance, fuel and repairs in accordance with Company policy in effect at the Closing Date. Employee shall be responsible for payment of all fines, penalties and tickets relating to the use of the motor vehicle during the period it had been put at Employee's disposal, but will not be responsible, where applicable, for any penalties incurred as a result of the early return of the motor vehicle to the leasing company in connection with the termination of the Employee's employment for any reason whatsoever. Employee shall not have any lien with respect to the motor vehicle or any document or property relating thereto.
- Any expenses, payments or other benefits that are borne by the Company in connection with the provision or use of the motor vehicle shall not be regarded as part of the Salary, for any purpose or matter, including without limitation for calculation of rights and entitlements that are derived from Salary or wages. Employee shall take good care of the motor vehicle and ensure that the provisions of the insurance policy and the Company's rules relating to the motor vehicle are strictly, lawfully and carefully observed. Employee is aware that in order to provide him with the motor vehicle the Company shall lease the motor vehicle from a leasing company, and Employee undertakes to strictly comply with the provisions of the leasing agreement.

- 3.8.3 The provision of the leased motor vehicle under this section 3.8 is in lieu of payment of a travel allowance.
- 3.8.4 Employee will have continued use of the motor vehicle during the 6-month advance notice period referred to in Section 4.1 below, even if the Company terminates the employment relationship with immediate effect and pays the Employee the Advanced Notice Payment and for a further period thereafter until the earlier of: (i) 6 months following termination of the 6-month advance notice period, and (ii) Employee beginning full time employment with another employer. The current leasing arrangement of the Company enables continued leasing and use of the leased vehicle following termination of employment and the Company shall take all steps necessary to ensure that any future arrangement will similarly permit such continued use.
- 3.9 <u>Health and Dental Insurance</u>. Employee will be entitled to participate in Company's health insurance and dental insurance plans, subject to Company's policy as will be updated from time to time during the period of employment.

# 3.10 <u>Bonus/Incentive</u>

# Programs.

- 3.10.1 Subject to Section 3.10.2, in calendar years 2019 and 2020, Employee's target bonus opportunity shall be equal to 100% of his annual Salary, calculated on the basis of a full year, in each instance as in effect prior to the Transition Date (the "Annual Bonus"). The amount of the Annual Bonus, if any, will depend on the achievement of the objectives set forth in Exhibit A (the "Annual Bonus Objectives"). The Annual Bonus Objectives for calendar year 2020 will be based in part on achievement of financial objectives for the Company established at a date following the date hereof and approved by the Compensation Committee of the Board of Directors of KLA (the "Compensation Committee") within 45 days following the end of calendar year 2019, which Annual Bonus Objectives will be incorporated into Exhibit A as of the date of such approval. KLA shall determine the achievement of the Annual Bonus Objectives, the entitlement to the Annual Bonus as well as the amount of the Annual Bonus in its sole and absolute discretion. The Annual Bonus shall be paid (if any) as soon as practicable after the Company determines that the Annual Bonus has been earned, subject to deduction of any and all taxes and charges applicable to Employee, but not later than March 31, 2020, with respect to the 2019 Annual Bonus and March 31, 2021 with respect to the 2020 Annual Bonus. The 2019 Annual Bonus and the 2020 Annual Bonus will be paid to the Employee even if at the time of payment he is no longer an employee of the Company, provided he remains an employee through December 31, 2019, with respect to the 2020 Annual Bonus.
- 3.10.2 In the event the Merger has not occurred as of December 31, 2018, Employee will be entitled to payment of his annual bonus amount for calendar year 2019, as established by the Company prior to the Closing Date, based on the Company's achievement of the applicable performance metrics as determined by reference to the period from January 1, 2019 until the end of the Company's fiscal period in which the Closing Date occurs, taken as one period (the "Closing Fiscal Period"), with such payment prorated based on the number of days during the period beginning on January 1, 2019 and ending on the Closing Date (such pro-rated payment, the "Interim Annual Bonus"). For purposes of determining the applicable Interim Annual Bonus, the Company will prepare unaudited financial statements with respect to the Closing Fiscal Period, which shall be prepared on a basis consistent with the Company's pre-closing financial statements without giving effect to purchase accounting (the "Interim Financial Statements") and shall be subject to the review and final approval of KLA which review and approval shall not be unreasonably withheld, conditioned or delayed. The

Interim Annual Bonus shall be paid to the Employee no later than 20 days following KLA's approval of the Interim Financial Statements, and, in any event, no later than 45 days after the date of the Company's preparation of the Interim Financial Statements. In addition, with respect to the period following the Closing Date and ending on December 31, 2019, Employee will be eligible to receive the 2019 Annual Bonus as provided for in Section 3.10.1 above, reduced by the amount of the Interim Annual Bonus (if any). Subject to the foregoing and for the avoidance of doubt, the bonus payments payable under Sections 3.10.1 and 3.10.2 will not be payable under any KLA bonus plan and are designed to replace and be in lieu of any other bonus, and Employee will not eligible to receive any annual bonus with respect to calendar year 2019 and calendar year 2020 other than as provided herein.

- 3.10.3 Upon closing of the Merger Agreement, but in no event later than 10 business days following the Closing Date, the Company will pay Employee a cash bonus in an amount in NIS equivalent to USD 1,783,333.33 (one million seven hundred eighty three thousand three hundred and thirty three United States Dollars and thirty three United States Cents) calculated at the Representative Rate of Exchange last published prior to the date of payment, subject to deduction of any and all taxes and charges applicable to Employee (the "Closing Bonus").
- 3.10.4 To avoid doubt, no disbursements shall be made under Section 3.1 above with respect to any bonus or incentive payments, including the Annual Bonus and Closing Bonus, and bonus and incentive payments shall not be deemed a portion of Employee's Salary for any purpose, including without limitation, for calculation of rights and entitlements that are derived from Salary or wages.
- 3.11 <u>Cellular Phone</u>. Employee shall be entitled to receive a cellular phone from the Company, subject to Company's policy as shall be amended from time to time. The cellular phone (together with its accessories and phone number) will become the property of the Employee upon termination of employment, however arising.

#### 3.12 <u>Performance-Based</u>

#### RSUs.

- 3.12.1 The Company hereby represents that KLA has, by its authorized corporate bodies, approved the grant to the Employee, no later than and effective as of immediately following the closing of the Merger, pursuant to KLA's 2004 Equity Incentive Plan (as amended, the "Plan"), of an award of performance-based restricted stock units settled in shares of KLA common stock (the "Performance-Based RSUs"). The target number of restricted stock units covered by the Performance-Based RSUs equals the quotient obtained by dividing (i) USD 3,430,000 (three million four hundred and thirty thousand United States Dollars) (the "Performance-Based RSU Value") by (ii) the per share adjusted closing stock price of KLA common stock on the date of the closing of the Merger (the "Target"). The Performance-Based RSUs may vest at up to 200% of Target, as described in Section 3.12.3.
- 3.12.2 The Performance-Based RSUs are subject to vesting as follows: (i) A percentage of one half of the Target restricted stock units subject to the Performance-Based RSUs (such portion of the Target number of restricted stock units, the "2019 Performance Units") as determined in Section 3.12.3 will vest on the earlier of (A) 12 months following the Closing Date or (B) December 31, 2019, subject to Employee's continuing employment or service through such date, and (ii) a percentage of one half of the Target restricted stock units subject to the Performance-Based RSUs (such portion of the Target number of restricted stock units, the "2020 Performance Units") will vest on the earlier of (X) 24 months following the Closing Date or (Y) the Termination Date, subject to Employee's continuing employment or service (including as a Senior Advisor) through such date, except as provided in Sections 3.12.4 and 3.12.5 (the percentage of the

- applicable target number of restricted stock units with respect to either the 2019 Performance Units or 2020 Performance Units actually vesting, each a "Vesting Percentage").
- 3.12.3 The Vesting Percentage with respect to the 2019 Performance Units and the 2020 Performance Units shall be determined based on the Company's achievement of the objectives (each an "**Objective**") in calendar years 2019 and 2020, respectively, as set forth in Exhibit B.
- 3.12.4 If, prior to the applicable vesting date of the 2019 Performance Units, Employee is terminated by the Company without Cause (as defined below), and Employee executes and delivers a release agreement in the form of Exhibit C, the 2019 Performance Units and 2020 Performance Units will be canceled and in lieu thereof, the Company will pay Employee an amount in NIS equivalent to 100% of the Performance-Based RSU Value, calculated at the Representative Rate of Exchange last published prior to the date of payment, subject to deduction of any and all taxes and charges applicable to Employee.
- 3.12.5 If, following the applicable vesting date of the 2019 Performance Units but prior to the applicable vesting date of the 2020 Performance Units, Employee is terminated by the Company without Cause (as defined below), and Employee executes and delivers a release agreement in the form of Exhibit C, the 2020 Performance Units will be canceled and in lieu thereof, the Company will pay Employee an amount in NIS equivalent to 50% of the Performance-Based RSU Value, calculated at the Representative Rate of Exchange last published prior to the date of payment, subject to deduction of any and all taxes and charges applicable to Employee.
- 3.12.6 The Compensation Committee will review, determine, and approve the level of achievement of the Objectives and the applicable Vesting Percentage with respect to the Performance-Based RSUs. All determinations of Vesting Percentage and degree of achievement of Objectives will be made on or prior to March 31 of the year following the year with respect to which the Objectives are based. Employee will receive notification of the grant of the Performance-Based RSUs promptly following the date it is effective. The Performance-Based RSUs will be subject to the terms of the applicable grant document and the Plan and will be granted in accordance with Section 102 of the Israel Income Tax Ordinance through a trustee approved for such purposes by the Israel Income Tax Authority and pursuant to the "capital gains route" thereunder.

#### 3.13 <u>Time-Based RSUs</u>.

- 3.13.1 The Company hereby represents that KLA has, by its authorized corporate bodies, approved the grant to the Employee, no later than and effective as of immediately following the closing of the Merger, pursuant to the Plan, of an award of restricted stock units settled in shares of KLA common stock (the "Time-Based RSUs"). The number of restricted stock units covered by the Time-Based RSUs equals the quotient obtained by dividing (i) USD 2,286,666.67 (two million two hundred and eighty six thousand six hundred and sixty six United States Dollars and sixty seven United States Cents) (the "Time-Based RSU Value") by (ii) the per share adjusted closing stock price of KLA common stock on the date of the closing of the Merger.
- 3.13.2 The Time-Based RSUs are subject to vesting as follows: (i) 50% of the Time-Based RSUs will vest on the earlier of (A) 12 months following the Closing Date, or (B) December 31, 2019, subject to Employee's continuing employment or service through such date, and (ii) 50% of the Time-Based RSUs will vest on the earlier of (X) 24 months following the Closing Date, or (Y) the Termination Date, subject to Employee's continuing employment or service (including as a Senior Advisor) through such date, except as provided in Section 3.13.3.

- 3.13.3 If Employee is terminated by the Company without Cause (as defined below), and Employee executes and delivers a release agreement in the form of Exhibit C, the Time-Based RSUs will be canceled and in lieu thereof, the Company will pay Employee an amount in NIS equivalent to (i) 50% of the Time-Based RSU Value if 50% of the Time-Based RSUs are vested as of the date of termination, or (ii) 100% of the Time-Based RSU Value if none of the Time-Based RSUs are vested as of the date of termination, in each instance, calculated at the Representative Rate of Exchange last published prior to the date of payment, subject to deduction of any and all taxes and charges applicable to Employee.
- 3.13.4 Employee will receive notification of the grant of the Time-Based RSUs promptly following the date it is effective. The Time-Based RSUs will be subject to the terms of the applicable grant document and the Plan and will be granted in accordance with Section 102 of the Israel Income Tax Ordinance through a trustee approved for such purposes by the Israel Income Tax Authority and pursuant to the "capital gains route" thereunder.

# 4. Term and

# **Termination**

- 4.1 The term of employment under this Agreement will begin as of the Closing Date and will continue until the Termination Date unless either party provides the other party with a 6 month prior written notice, subject to sections 4.2 and 4.3. For avoidance of doubt, in the event the Company provides the Employee with a prior written notice of termination less than 6 months prior to the Termination Date, the Company shall pay to Employee an Advanced Notice Payment (as such term is defined below) with respect to a period of time that is equal to the difference between 6 months and the period of time prior to the Termination Date in which the notice was given.
- 4.2 Notwithstanding anything contained herein to the contrary, the Company at its sole discretion shall have the right to terminate the employment relationship with immediate effect or prior to the end of the notice period set forth above and pay Employee in lieu of advance notice or the remainder thereof the Employee's Salary and the value of all benefits (excluding bonuses or equity-related benefits referenced in Sections 3.10, 3.12 and 3.13) for such period (such payment, the "Advanced Notice Payment").
- 4.3 In addition, the Company shall have the right to terminate this Agreement at any time without a notice period or payment in lieu thereof in the event of termination for Cause (as defined below).
- 4.4 The term "Cause" shall mean (a) Employee's conviction of, or plea of nolo contendre to, a felony; (b) the Employee's gross misconduct; (c) any material act of personal dishonesty taken by the Employee in connection with his responsibilities as an employee or service provider of the Company or its subsidiaries; or (d) the Employee's willful and continued failure to perform the duties and responsibilities of his position after there has been delivered to the Employee a written demand for performance from the Company or the applicable subsidiary which describes the basis for the belief that the Employee has not substantially performed his duties and provides the Employee with 30 days to take corrective action.
- 4.5 In any event of termination of this Agreement, or otherwise upon the Company's request, except as otherwise provided herein, Employee shall immediately return, in proper form and working order, all Company and customer of the Company property, equipment, materials, documents, and data (without retaining copies, other than copies of any data and other information, including contact information, stored on Employee's cellular phone), to the extent that any such property, equipment, materials, documents, or data is material to the business of the Company or its affiliates and which, for the avoidance of doubt, shall not include any personal items in Employee's office; and Employee shall cooperate with the Company and use Employee's reasonable best efforts to assist with the transition of work as directed. At the option of the Company, Employee shall during such period either continue with Employee's duties or remain absent from the premises of the Company. Under no circumstances will Employee have a lien

over any property (including data) provided by or belonging to the Company or customer of the Company.

4.6 (A) Upon any termination of employment, including any termination of employment by Employee, Employee will be entitled: (i) to a lump sum payment equal to the product of 200% of the Salary (based on Employee's most recent Salary prior to transitioning to Senior Advisor) multiplied by the number of years, including partial years, from November 1, 1992 until the Closing Date, less any amounts contributed by the Company and accumulated on account of severance pay with respect to such period in any Manager's Insurance Policy or Pension Fund maintained by the Company for the Employee and which are released to the Employee upon termination of employment (the "Vested Retirement Payment Benefits"), and (ii) to a lump sum payment equal to 6 months' Salary (based on Employee's most recent Salary prior to transitioning to Senior Advisor) (the "Adjustment Period Benefits"); (B) in addition to the Vested Retirement Payment Benefits and the Adjustment Period Benefits, upon any termination of employment by Employee, Employee will be entitled to the following benefits: (i) a lump sum retirement payment equal to the product of 200% of Employee's Salary, based on Employee's most recent Salary prior to transitioning to Senior Advisor, multiplied by the number of years, including partial years, of his employment with the Company since the Closing Date until the date of termination, less any amounts contributed by the Company and accumulated on account of severance pay with respect to such period in any Manager's Insurance Policy or Pension Fund maintained by the Company for the Employee and which are released to the Employee upon termination of employment (the "Retirement Payment Benefits"), and (ii) vesting acceleration termination benefits as provided for in Annex A to the Original Employment Agreement as if the Employee had resigned due to an adverse change in his position within 12 months of a "Significant Event" (as defined in such Annex A), even if such resignation occurs more than 12 months following the approval by the Company's shareholders of the Merger, with respect to Employee's outstanding equity awards to purchase or receive shares of common stock of KLA (including those resulting from the assumption by KLA of equity awards granted by the Company prior to the closing of the Merger, but excluding the Performance-Based RSUs and the Time-Based RSUs with respect to which the provisions of Sections 3.12.4, 3.12.5 and 3.13.3 above will apply); (the "Assumed Equity Award Acceleration Benefit"); (C) in addition to the Vested Retirement Payment Benefits and the Adjustment Period Benefits, (i) upon any involuntary termination of Employment, other than by the Company for Cause, Employee will be entitled to receive the Retirement Payment Benefits; and (ii) upon any involuntary termination of Employment for any reason Employee will be entitled to receive the Assumed Equity Award Acceleration Benefit; (D) if Employee remains in continuous employment with the Company until 24 months following approval by the Company's shareholders of the Merger, Employee will be entitled to the Assumed Equity Award Acceleration; and (E) if Employee remains in continuous employment with the Company through the Termination Date and Employee's employment terminates on such date, Employee will be entitled to receive the Adjustment Period Benefits, the Vested Retirement Payment Benefits, the Retirement Payment Benefits, the Assumed Equity Award Acceleration Benefit (to the extent not previously received pursuant to (D) above), and the Advanced Notice Payment.

For the avoidance of doubt, a "termination of employment" for all purposes of this Section 4.6 shall include a termination of employment as a result of Employee's death or disability.

# 5. Confidentiality; Proprietary

# **Rights**

- Employee has executed and agrees to be bound by the provisions governing confidentiality, proprietary rights and non-competition contained in Exhibit D to this Agreement, which provisions will survive termination of this Agreement for any reason.
- 5.2 All of Employee's confidentiality, proprietary rights, non-solicitation, and non-competition obligations pursuant to the Employee's previous undertakings in favor of the Company will remain in full force and effect, except that all non-competition undertakings will expire upon

termination of Employee's employment with the Company. In case of contradiction, between such previous undertakings and Exhibit D, Exhibit D will override.

# 6. <u>Successors</u> and

#### **Assigns**

- 6.1 This Agreement shall be binding upon and shall inure to the benefit of the Company, its successors and assigns.
- 6.2 Neither this Agreement nor any right or interest hereunder shall be assignable or transferable by Employee, Employee's beneficiaries or legal representatives, except by will or by the laws of descent and distribution.

## 7. Prevention of Sexual

#### **Harassment**

7.1 The Company views violations of the Law for Prevention of Sexual Harassment (the "Law") in a severe light. Employee acknowledges being informed of the Company's policy regarding sexual harassment, including the existence of Company guidelines for the prevention of sexual harassment that may be received at any time from the employee in charge of enforcing the Law in the Company.

# 8. Data and

## **Privacy**

- The use of the Company's (and Company affiliates') devices and equipment, including computers, e-mail accounts, phones, and so on, is intended for professional use and for executing Employee's duties in the Company and for reasonable personal use. The Company hereby notifies Employee that it uses its right to conduct inspections within the Company's offices and on the Company's and Company affiliates' equipment, including computers, cellular phones, and other devices, and, with respect to electronic mail, inspections of electronic mail transmissions sent or received through the e-mail account provided by the Company (the "Company's E-Mail Account"), and including internet usage and inspections of their content, inspections of phone usage and cellular company's bills and reports, all while safeguarding Employee's privacy and subject to applicable law. For the avoidance of doubt, subject to applicable law, any such examination's findings, except for Employee's personal matters, shall be the Company's sole property, and may be presented by the Company to third parties. Employee hereby consents to any reasonable use, transfer and disclosure of all work related messages and data contained or sent via the Company's computer and communications systems, including the Company's E-Mail Account. Employee shall fully comply with the Company's policies regarding use of electronic devices and networks, as may be in effect from time to time
- Employee's personal information, including data collected by the Company for purposes related to Employee's employment. This may include transfer of Employee's personnel records outside of Israel and further transfers thereafter. All personnel records are considered confidential and access will be limited and restricted to individuals with need to know or process that information for purposes relating to Employee's employment only, such as management teams and human resource personnel. The Company may share personnel records as needed solely for such purposes with third parties assisting with human resources administration.

# 9. Miscellaneous

- 9.1 All payments set forth in this Agreement are subject to withholding of applicable taxes, including national insurance payments. The Performance-Based RSUs and Time-Based RSUs have been or will be granted with dividend equivalent rights and in accordance with Section 102 of the Israel Income Tax Ordinance through a trustee approved for such purposes by the Israel Income Tax Authority and pursuant to the "capital gains route" thereunder.
- 9.2 No provision of this Agreement may be modified, waived or discharged unless such waiver, modification or discharge is agreed to in writing and signed by Employee and the Company. No waiver by either party hereto at any time of any breach by the other party hereto of, or compliance

- with, any condition of this Agreement to be performed by such other party shall be deemed a waiver of similar or dissimilar provisions or conditions at the same or at any prior or subsequent time. This Agreement shall not be modified or otherwise affected by unwritten "customary practices" or the terms applying to other employees of the Company.
- 9.3 This Agreement constitutes the entire agreement between the parties hereto and supersedes all prior agreements, understandings and arrangements, oral or written, between the parties hereto with respect to the subject matter hereof (including, for the avoidance of doubt, the Original Employment Agreement), except as expressly set forth herein. No new agreements or arrangements shall apply unless a written agreement containing such agreements or arrangements was executed by both parties.
- 9.4 Employee will be subject to Company's policies, as set and updated from time to time; <u>provided</u> that, in accordance with the terms of the Merger Agreement, during the one-year period following the Merger such policies shall be no less favorable, in the aggregate, than those in effect as of immediately prior to the Merger.
- 9.5 This Agreement is personal and its terms are confidential, and, other than as otherwise disclosed in any public filings by the Company or KLA with the U.S. Securities and Exchange Commission, Employee undertakes to keep them as such; provided, however, that Employee may disclose such information to his legal counsel, tax advisors or financial planners on the condition that Employee shall first instruct such counsel, advisors or planners, as applicable, not to disclose such information to anyone or otherwise make use of such information outside the scope of their retention by Employee.
- 9.6 This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Israel.
- 9.7 In the event that any provision of this Agreement is held invalid or unenforceable in any circumstances by a court of competent jurisdiction, the remainder of this Agreement and the application of such provision in any other circumstances shall not be affected thereby, and the unenforceable provision shall be enforced to the maximum extent permissible under law or otherwise shall be replaced by an enforceable provision that most nearly approximates the intent of the unenforceable provision.
- 9.8 This Agreement and its annexes and exhibits constitute notice to Employee pursuant to the Notice to Employee (Employment Terms) Law 2002. Nothing contained in this Agreement is meant to derogate from Employee's right according to any applicable law or agreement.

IN WITNESS WHEREOF:

Date: February 20, 2019

Company:	Employee:
Orbotech Ltd.	Amichai Steimberg
Signature: /s/ Bren D. Higgins	Signature: /s/ Amichai Steimberg
By: Bren D. Higgins	ID#:
Title: Director	Date: February 20, 2019

# EXHIBIT A ANNUAL BONUS OBJECTIVES

	Orbotech CY19 Annual Bonus Payout Table for Orbotech CEO & President/COO Only 1								
Balanced			CY19 Non-GAPP Operating Margin (\$M) Performance						
Scorecard Performance ("BSc")	BSc Score	BSc Multiplier	<u>&lt;\$[**]</u>	<u>\$[**]</u>	<u>\$[**]</u>	<u>\$[**]</u>	<u>\$[**] 2</u>	<u>\$[**]</u>	<u>\$[**]</u>
Far Exceeds Expectations	<u>5</u>	1.2	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**] <sup>0</sup> / <sub>0</sub> <sup>3</sup>
Exceeds Expectations	<u>4</u>	1.1	<u>0%</u>	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	[**] <u>%</u> 3
Primarily Meets Expectations	<u>3 ²</u>	<u>1.0 <sup>2</sup></u>	<u>0%</u>	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	[**] <sup>0</sup> / <sub>0</sub> <sup>2</sup>	<u>[**]%</u>	[**] <sup>0</sup> / <sub>0</sub> <u>3</u>
Below Expectations	<u>2</u>	<u>.9</u>	0%	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	[**]%	<u>[**]%</u>	<u>[**]%</u> 3
Far Below Expectations	1	<u>.8</u>	0%	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	[**]% <u>3</u>
-	% of Plan			[**]%	[**]%	[**]%	[**]%	[**]%	[**]%

<sup>&</sup>lt;sup>1</sup> The Annual Bonus Payout Table above applies only to the individuals holding the positions of CEO and President/COO of Orbotech Ltd. on the Closing Date of the Merger.

# <sup>2</sup> These numbers reflect CY19 Target BSc and Non-GAAP Operating Margin Performance.

<sup>3</sup> The payout multiple is capped at these amounts for each level of BSc performance.

#### **CY19 BSc Performance Expectations**

For purposes of the Annual Bonus Objectives for the CEO and President/COO of Orbotech Ltd. (as those positions are occupied on the Closing Date of the Merger), the Performance Expectations shall be defined as follows:

# 1- Far Below Expectations

- A Failure to have a Plan in place within six (6) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) which would achieve at least a [\*\*] run rate cost savings within the two (2) years post-Closing; or
- Achieving less than 100% retention of the "Top 5" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19; or
- Achieving less than 85% retention of the "Next 21" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19.

#### 2- Below

#### **Expectations**

- A Failure to have a Plan in place within four (4) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) which would achieve at least a [\*\*] run rate cost savings within the two (2) years post-Closing; or
- Achieving less than 100% retention of the "Top 5" senior executives other than the CEO and the President/COO (specifically, [\*\*1]) through CY19; or
- Achieving less than 90% retention of the "Next 21" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19.

# 3- Primarily Meets

#### **Expectations**

- A Having a Plan in place within four (4) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) to achieve a [\*\*] run rate cost savings within the two (2) years post-Closing; and
- Achieving 100% retention of the "Top 5" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19; and
- Achieving 90% or greater retention of the "Next 21" senior executives other than the CEO and President/COO (specifically, [\*\*1) through CY19.

# 4- Exceeds

#### **Expectations**

A Having a Plan in place within four (4) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) to achieve a [\*\*] or greater run rate cost savings within two and one-half (2.5) years post-Closing, or a Plan with specific actions identified to achieve at least a [\*\*] run rate cost savings within two (2) years post-Closing while also identifying specific actions to achieve at least [\*\*] of such a run rate savings in CY2020; and

If applicable, successful execution/implementation against Orbotech specific actions in support of the \*\*! run rate savings identified above by the end of CY19; and

- Achieving 100% retention of the "Top 5" senior executives other than the CEO and President/COO (specifically [\*\*]) through CY19; and
- Achieving 95% retention or greater of the "Next 21" senior executives other than the CEO and President/COO (specifically, [\*\*]) through CY19.

# 5- Far Exceeds

# **Expectations**

A Having a Plan in place within six (6) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) to achieve an [\*\*] or greater run rate cost savings within two and one-half (2.5) years post-Closing, or a Plan with specific actions identified to achieve at least a [\*\*] run rate cost savings within two and one-half (2.5) years post-Closing while also

identifying specific actions to achieve at least [\*\*] of such run rate savings in CY2020; and

If applicable, successful execution/implementation against Orbotech specific actions in support of the \*[\*\*] or greater run rate savings identified above by the end of CY19; and

- Achieving 100% retention of "Top 5" senior executives other than the CEO and President/COO (specifically [\*\*]) through CY19; and
- Achieving 100% retention of "Next 21" senior executives other than the CEO and President/COO (specifically, [\*\*]) through CY19.
- 1) Within each BSc level, 70% weight is to be given to criteria "A", 20% weight to criteria "B", and 10% weight to criteria "C" as set forth in the descriptions set forth directly above.
- 2) KLA-Tencor ("KLA") agrees to cooperate in the synergy process and make it a priority.
- 3) Accounting and business model changes will be limited to those necessary to achieve synergy objectives and/or to align with KLA's existing control environment; to the extent such changes might impact the achievement of OM\$ and resultant PRSU payout, payout levels will be adjusted accordingly and correspondingly.
- 4) Orbotech organizational changes will be kept to a minimum through CY2020 and be limited to those necessary and aligned upon to achieve synergy objectives, and/or those necessary to align with KLA's existing control environment.

For purposes of defining retention, loss of an executive resulting from a death or due to a termination of an executive by Orbotech will not counted as a failure to retain.

# EXHIBIT B **OBJECTIVES**

Proposed ORBK CY 19 PRSU Payout table (POR as of 5/1/18)								
Balanced Scorecard Performance (BSc)	BSC Score CY 19 Non-GAAP Operating Margin (\$M) Performance						ce	
		<[**] [**] [**] [**] [**]						
Far Exceeds Expectations	5	0%	[**]	[**]	[**]	[**]	[**]	[**]
<b>Exceeds Expectations</b>	4	0%	[**]	[**]	[**]	[**]	[**]	[**]
Primarily Meets Expectations	3	0%	[**]	[**]	[**]	[**]	[**]	[**]
Below Expectations	2	0%	[**]	[**]	[**]	[**]	[**]	[**]
Far Below Expectations	1	0%	[**]	[**]	[**]	[**]	[**]	[**]
	% of Plan		[**]	[**]	[**]	[**]	[**]	[**]

Payout table applies only to Orbotech CEO and President/COO

CY 19 Target BSc and Non-GAAP Operating Margin Performance							
Payout multiple is capped at these amounts for level of BSc performance							
		·					
CY19 BSc P	erformance Exp	pectations					
1 – Far Belo	w						
	A	Failure to have a Plan in place within six (6) months post-close, or establishing a Plan with specific actions identified (to be taken both by KT and Orbotech) which would achieve less than [**] run rate cost savings within two (2) years post-close					
	В	Less than 100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19					
	C	Less than 85% retention of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19					
2 – Below							
	A	Failure to have a Plan in place within four (4) months post-close, and/or establishing a Plan with specific actions identified (to be taken both by KT and Orbotech) which would achieve less than [**] run rate cost savings within two (2) years post-close.					
	В	Less than 100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19.					
	C	Less than 90% retention of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19.					

3 – Primarily Meets	
A	Plan in place within four (4) months post-close with specific actions identified (to be taken both by KT and Orbotech) to achieve [**] run rate cost savings within two (2) years post-close.
В	100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19.
C	90% retention or greater of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19.
4 – Exceeds	
A	Plan in place within four (4) months post-close with specific actions identified (to be taken both by KT and Orbotech) to achieve [**] or greater in run rate cost savings within two and one-half (2.5) years post-close while also identifying specific actions to achieve at least [**] of such run rate savings in CY2020.
A	If applicable, successful execution/implementation against Orbotech specific actions in support of the [**] run rate savings identified above by end of CY19.
В	100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19.
C	95% retention or greater of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19.
5 – Far Exceeds	
A	Plan in place within six (6) months post-close with specific actions identified (to be taken both by KT and Orbotech) to achieve [**] or greater in run rate cost savings within two and one-half (2.5) years post-close while also identifying specific actions to achieve at least [**] of such run rate savings in CY2020.
A	If applicable, successful execution/implementation against Orbotech specific actions in support of the [**] or greater run rate savings identified above by end of CY19.
В	100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19.

- 100% retention or greater of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19.

  1) Within each BSc level, 70% weight to be given to "A", 20% weight to "B", and 10% weight to "C"

  2) KLA-Tencor ("KLAT") agrees to cooperate in the synergy process and make it a priority

  3) Accounting and business model changes will be limited to those necessary to achieve synergy objectives and/or to align with KLAT's existing control environment; to the extent such changes might impact the achievement of OM\$ and resultant PRSU payout, payout levels will be adjusted accordingly and correspondingly.

  4) Orbotech organizational changes will be kept to a minimum through CY2020 and be limited to those necessary and aligned upon to achieve synergy objectives, and/or those necessary to align with KLAT's existing control environment.
  - 5) For purposes of defining retention, loss of an executive resulting from a death or due to a termination of an executive by Orbotech will not counted as a failure to retain.

#### **EXHIBIT C**

#### TERMINATION AND RELEASE AGREEMENT

I, the undersigned, Amichai Steimberg, ID No. 057430308, hereby confirm, agree, and undertake as follows:

- 1. <u>Dates of Employment</u>: I began employment with [**Orbotech Ltd.**] or a predecessor in interest thereto ("**My Employer**") effective as of November 1, 1992. By mutual agreement, my employment with My Employer terminated effective [●] (the "**Termination Date**"). Capitalized terms not otherwise defined in this Termination and Release Agreement will have the meaning set forth in the Employment Agreement between me and the Orbotech Ltd. dated [ ] (the "**Employment Agreement**").
- 2. <u>Final Payments</u>: I acknowledge and agree that the payments and entitlements set forth in the attached **List of Final Payments** are the sole consideration to which I am entitled from My Employer and all of its respective affiliated, associated, parent, related and successor organizations (collectively, the "**Company**") relating to any matters arising out of my employment with My Employer or during the time of my employment with My Employer or the termination of said employment, and that there is no further obligation, financial or otherwise, owing to me by the Company. I further acknowledge and agree that the attached List of Final Payments includes certain benefits to which, pursuant to the Employment Agreement, I would not be entitled unless I enter into this Termination and Release Agreement.
- 3. <u>Confirmation of No Claims</u>: I confirm that upon receipt of the payments and entitlements listed in the attached List of Final Payments, I will have received all that I am entitled to for my work with My Employer and in connection with the termination of such employment (including but not limited to wages, overtime pay, annual leave and vacation pay, recuperation pay, remuneration of work on weekly rest, bonuses, royalties, intellectual property rights, options, stocks, pension, notice pay, severance pay, and other compensation in connection with my employment and the termination of that employment) and that upon such receipt, I will have no claim or demand for any payment, benefit or rights of any kind in connection with my employment and the termination of that employment. I agree that, subject to such receipt and compliance by My Employer with the terms hereof, I will not commence any complaint, claim, or proceeding under any applicable law or agreement with respect to any aspect of my employment with My Employer or the cessation of that employment or alleging breach of any of the provisions of any employment agreement or law, except as otherwise provided herein.
- 4. Release of Claims: I RELEASE AND FOREVER DISCHARGE, the Company, its parent, subsidiaries, and affiliates and all of their respective agents, directors, employees, officers, owners and shareholders, administrators, and assigns (both individually and in their official capacities with the Company) (collectively, the "Released Parties") of and from any and all actions, causes of action, claims, complaints, debts, demands, liabilities and penalties, of every nature and kind which I or any of my heirs, executors, administrators or assigns has now or may have against any Released Parties, by reason of or arising out of any cause or matter existing up to the present time, whether legal or equitable and arising in contract, tort, or statute including without limitation, negligence, whether arising pursuant to Israeli law or otherwise, relating to any matters arising out of my employment or during the time of my employment or the cessation of said employment. Notwithstanding anything to the contrary in this Termination and Release Agreement or the Employment Agreement, nothing herein shall release any Released Parties from any claims or damages based on (a) any rights arising under, or preserved by, this Termination and Release Agreement, (b) any right or claim that arises after I execute this Termination and Release Agreement, (c) any right that is not waivable under applicable law, (d) any right to be insured, indemnified, exculpated or held harmless under the Company's articles of association and other similar organizational documents, any applicable agreement or undertaking or otherwise and (e) any continuing obligations of the Company under the Employment Agreement or under any agreements, plans, contracts, documents or programs described or referenced in the Employment Agreement. Without derogating in any way from the above, I acknowledge that this release is a "Settlement and Acknowledgement of Discharge" as defined in Section 29 of the Severance Pay Law, 5723 1963.

Execution	Copy

- 5. Confidentiality Commitment: I confirm that I have continuing obligations not to disclose or make use of proprietary and confidential information as set forth in the Employee Proprietary Information and Invention Assignment Agreement between me and the Company dated as of \_\_\_\_\_ (the "PIIA") (including such other confidentiality and proprietary rights undertakings which I entered into during and in connection with my employment that, in accordance with the terms of the PIIA, continue after the termination of my employment), and I agree to honor those continuing obligations. I further acknowledge that I have continuing obligations pursuant to the PIIA to assist the Company or its nominee with respect to Assignable Inventions (as such term is defined in the PIIA), and I agree to honor those continuing obligations as well.
- 6. <u>Timing of Payments</u>: All payments and all letters of release referred to in the attached List of Final Payments will be paid or delivered to me, as applicable, within seven (7) days of the date hereof or such later date as contemplated by my Employment Agreement.
- 7. <u>Agreement Not to Disparage; Tortious Interference</u>: I agree to refrain from any disparagement or slander of the Company or tortious interference with the contracts and relationships of the Company.
- 8. <u>Return of Property</u>: I confirm that I have returned Company information and property to the extent required by Section 9 of the PIIA.
- 9. Return of Company Car: I confirm that I will have continued use of the motor vehicle that the Company provided to me during the six (6) month advance notice period referred to in the Employment Agreement and thereafter until the earlier of (i) six (6) months following termination of the six (6) month advance notice period; and (ii) my beginning full time employment with another employer; and I will return and deliver the motor vehicle to the Company's facilities at the earlier of such times, and the Company will continue to bear all expenses relating to the use of the motor vehicle, including maintenance, fuel and repairs through such time. I acknowledge that I am solely responsible for all fines, penalties and tickets associated with the use of such Company motor vehicle in accordance with the terms of my Employment Agreement through the date of actual return to the Company and that the Company is entitled to transfer any such citations to my name and to offset from any amounts payable to me any such fines, penalties and tickets that are not paid in full by me, provided that I will not be responsible, where applicable, for any penalties incurred as a result of the early return of the motor vehicle to the leasing company in connection with my termination of employment for any reason whatsoever.
- 10. <u>Legal Obligations</u>: I understand that my and the Company's obligations under this Termination and Release Agreement are in addition to those obligations under applicable law and do not derogate therefrom.
- 11. <u>Miscellaneous</u>: I confirm that prior to signing this Termination and Release Agreement, I carefully read it and that I understand its terms. I understand that this document, along with my Employment Agreement and the PIIA, constitutes the entire agreement between myself and My Employer with respect to the matters herein and supersedes all other agreements between myself and the Company, except as specifically set forth herein, and I confirm that I have not relied on any statement, written or oral, that is not set forth in this document with respect to the matters herein. I understand that this Termination and Release Agreement may be amended only be written agreement stating the intent to amend it that is signed by both me and an authorized representative of My Employer.

By my signature below, I confirm my agreement to the terms above.	
	Amichai Steimberg
Dated:	
10	

	Accepted and Agreed:
	Orbotech Ltd.
Ву:	
Title:	

# ATTACHMENT TO TERMINATION AND RELEASE AGREEMENT

# LIST OF FINAL PAYMENTS

On or after the date of termination of your employment with the Company, but within the time period specified in <u>Section</u> 6 of the Termination and Release Agreement to which this list is attached, the Company shall pay and/or release to you the following amounts subject to any applicable withholding tax as may be required by law:

1.	Last Monthly Salary: Salary and benefits at the current monthly rate through the Termination Date	
2.	Annual Bonus: A lump sum payment representing any earned but unpaid Annual Bonus (as determined in accordance with the Employment Agreement) in the amount of NIS, payable no later than March 31 of the year following the year in which such Annual Bonus was earned.	
3.	Severance Pay (bituach minahalim): Release of all amounts accrued on account of severance pay (including any profits and interest with respect to such amounts) with respect to the period of your employment in the manager's insurance / pension fund(s) maintained for you. The Company will provide you with an appropriate letter of release addressed to the relevant manager's insurance / pension fund(s). Payment of Severance Pay will be made only after receiving all data from the funds and Form 161 signed by you and approved by the Israel Tax Authority (which Form 161 will be provided by the Company on or immediately following the Termination Date).	
4.	Vacation Days: Payment for [] accrued and unused vacation days as of the Termination Date at the rate of NIS per day.	
5.	. Annual Recreation Allowance (d'mei havra'ah): NIS	
6.	Education Fund (keren hishtalmut): Release of all amounts accrued in your Education Funds (NIS). The Company will provide you with an appropriate letter of release addressed to the relevant Education Fund(s).	
7.	. [Advance Notice Payment: A lump sum payment in the amount of NIS]	
8.	Vested Retirement Payment Benefits: A lump sum payment in the amount of NIS	
9.	Adjustment Period Benefits: A lump sum payment in the amount of NIS	
10	0.Retirement Payment Benefits: A lump sum payment in the amount of NIS	
11	.Assumed Equity Award Acceleration Benefits: Accelerated vesting of KLA-Tencor [equity-based awards].	
12	.Payment in lieu of Performance-Based RSUs: A lump sum payment in the amount of NIS	
13	.Payment in Lieu of Time-Based RSUs: A lump sum payment in the amount of NIS	
14	.Cellular Phone: The cellular phone provided to you by the Company (together with its accessories and phone number) will become your property. The Company will provide you with an appropriate letter of release/transfer to the relevant phone company in this regard.	

# EXHIBIT D

#### ORBOTECH LTD.

#### EMPLOYEE PROPRIETARY INFORMATION AND INVENTIONS ASSIGNMENT AGREEMENT

ORBOTECH LTD., together with its parent company, subsidiaries, and affiliated entities, is engaged in the business of research and development within various global electronics manufacturing, semiconductor and related microelectronics industries.

I acknowledge and agree that my employment with Orbotech Ltd., its parent company or any subsidiary of Orbotech Ltd. or such parent company (each such parent company or subsidiary, an "Affiliate") creates a relationship of confidence and trust between me and Orbotech Ltd. or such Affiliate, as applicable (the relevant employing entity, shall hereinafter be called the "Company"), and that in such capacity I have a duty to maintain the secrecy of information that may be disclosed to me in the course of my employment.

In consideration of my employment and of the compensation paid therefore, I agree to the following:

- 1. Confidentiality. I understand that during the course of my employment I will have access to various forms of non-public information. I understand that in the context of this Employee Proprietary Information and Inventions Assignment Agreement ("Agreement"), "Confidential Information" means non-public information and know-how which I receive or discover in the course of my employment, including but not limited to that relating to inventions, trade secrets, products and prototypes, technical data, product plans, schematics and other drawings, manufacturing processes, research and development, specifications, designs, software, algorithms, hardware and software configurations, formulas, flow charts, services, test data, check lists, procedures, technical manuals (including those for installation and service), Company- or Affiliate-provided training, tooling, passwords, business strategies and plans, market analysis, marketing, marketing plans, finances, customer lists and information (including names and contact information), pricing information, financial data, personnel information (including employee lists and responsibilities), organizational structure, and/or proprietary information given to the Company in confidence by others. I acknowledge that although not all such data may have a proprietary legend, the Company considers all such non-public information to be proprietary. Except as the Company may otherwise consent to in a writing signed by a Vice President of the Company or higher level executive, I agree to keep confidential and not to disclose or make any use of any Confidential Information except for the benefit of the Company. This provision shall survive my employment but shall not apply after information has entered the public domain, other than by my breach of this Agreement. I acknowledge and agree that the disclosure or use of any Confidential Information by me, other than for the benefit of the Company, is wrongful and could cause irreparable harm to the Company.
- 2. **Assignment of Inventions.** I hereby assign and transfer to the Company my entire right, title and interest in and to all inventions (as used in this Agreement, "inventions" shall include ideas, works of authorship, improvements, designs and discoveries), whether or not patentable or copyrightable, which during the period of my employment I may conceive, make, develop, work on, or first reduce to practice, either solely or jointly with others, whether or not reduced to practice, drawings, written descriptions, documentation, models or other tangible form. The assignment requirement of the preceding sentence shall not apply to inventions (a) for which no equipment, supplies, facilitates, or trade secret information of the Company or any Affiliate was used, (b) which were developed entirely on my own time, (c) which do not relate to the business of the Company or any Affiliate or to the Company's or any Affiliate's actual or demonstrably anticipated research or development, and (d) which do not result from any work performed by me for the Company. If in the course of my employment I incorporate into a Company product, process or machine a Prior Invention (as defined in paragraph 6 below) owned by me or in which I have an interest, then, unless otherwise agreed in writing signed by a Vice President of the Company or higher level executive, the Company is hereby granted and shall have a nonexclusive,

royalty-free, irrevocable, perpetual, worldwide license to make, have made, modify, use and sell such Prior Invention as part of or in connection with such product, process or machine.

For the removal of any doubt, all inventions required to be assigned by paragraph 2 above ("Assignable Inventions") shall be deemed, to the extent applicable, "Service Inventions" as defined in the Israeli Patent Law, 1967 (the "Patent Law"), it being clarified that under no circumstances will I be deemed to have any proprietary right in any such Service Invention, notwithstanding the provision or non-provision of any notice of an invention and/or company response to any such notice, under Section 132(b) of the Patent Law. This agreement is expressly intended to be an agreement with regard to the terms and conditions of consideration for Service Inventions in accordance with Section 134 of the Patent Law. I specifically acknowledge and agree that my duties with the Company may entail the invention and development of new ideas, technologies, products and other confidential and proprietary information, and that the creation of any such intellectual property is an inherent part of my duties with the Company. I further acknowledge and agree that I will not be entitled to additional royalties, consideration or other payments with regard to any Service Inventions, including any commercialization thereof, and do hereby explicitly, irrevocably and unconditionally waive the right to receive any such additional royalties, consideration or other payments. Without derogating from the aforesaid, it is hereby clarified that the level of my compensation and consideration has been established based upon the aforementioned waiver of rights to receive any such additional royalties, consideration or other payments, and that my compensation as a service provider and/or employee of the Company includes full and final compensation and consideration to which I may be entitled under law with respect to any Assignable Inventions, Service Invention, or any of the intellectual property rights set forth above.

- 3. **Disclosure of Inventions; Patents; Publication.** I agree that in connection with any Assignable Invention:
  - (a) I will disclose such Assignable Invention promptly in writing to my manager, with a copy to the Company's Legal Department. Such disclosure shall be received in confidence by the Company;
  - (b) I will, at the Company's request, promptly execute a written assignment of title to the Company for any such Assignable Invention and I will preserve any such Assignable Invention as confidential information of the Company;
  - (c) Upon request, I agree to reasonably assist the Company or its nominee (at its expense) during and at any time subsequent to my employment in every reasonable way to obtain for its own benefit patents, copyrights or other statutory protection for such Assignable Inventions in any and all countries, which inventions shall be and remain the sole and exclusive property of the Company or its nominee whether or not patented, copyrighted, or otherwise protected by statute; and
  - (d) I will not publish or cause to be published information on any such Assignable Invention. I recognize the right of ownership that the Company has to any publication relating to inventions belonging to the Company, and acknowledge my obligation to obtain clearance from the Company in advance of publishing on any such Assignable Invention.
- 4. **Execution of Documents.** In connection with paragraph 3(c) above, I further agree during my employment and thereafter to execute, acknowledge and deliver to the Company or its nominee upon request and at its expense all such documents, including applications for patents, copyrights, or other statutory protection to be issued therefore, as the Company may determine necessary or desirable to apply for and obtain on such assignable inventions in any and all countries and/or to protect the interest of the Company or its nominee in such inventions and to vest title thereto in the Company or its nominee. If the Company is unable because of my mental or physical incapacity or for any other reason to secure my signature to apply for or to pursue any application for any United States or foreign letters patent or copyright registrations covering inventions or original works of authorship assigned to the Company as above, then I hereby irrevocably designate and appoint the Company and its duly authorized officers and agents as my agent and attorney in fact, to act for and in my behalf and stead, to execute and further the prosecution and issuance of letters patent or copyright registrations thereon with the same legal force

and effect as if executed by me. I hereby waive and quitclaim to the Company any and all claims, of any nature whatsoever, which I now or may hereafter have for infringement of any patents or copyright resulting from any such application for letters patent or copyright registration assigned hereunder to the Company.

- 5. **Maintenance of Records.** I agree to keep and maintain adequate and current written records of all Assignable Inventions made by me (in the form of notes, sketches, drawings and as may be specified by the Company), which records shall at all times be available to and remain the property of the Company.
- 6. **Prior Inventions.** I understand that all inventions, if any, whether or not patented or copyrighted or otherwise protected by statutes, which I made prior to my employment, are excluded from the scope of this agreement. To preclude any possible uncertainty, I have set forth below in <a href="Exhibit A">Exhibit A</a> a complete list of all my prior inventions, including numbers of all patents, patent applications, copyrights registered in my name and mask works. I represent and covenant that the list is complete and that, if no items are on the list, I have no such prior inventions.
- 7. **Other Obligations.** I acknowledge that the Company from time to time may have agreements with other persons or with governmental authorities, or agencies thereof, which impose obligations or restrictions on the Company regarding inventions made during the course of work thereunder or regarding the confidential nature of such work. I agree to be bound by all such obligations and restrictions.
- 8. **Trade Secrets of Others.** I acknowledge and agree that my performance of all the terms of this Agreement does not and will not breach any agreement to keep in confidence proprietary information, knowledge or data acquired by me in confidence or in trust prior to my employment with the Company and I will not use or disclose to the Company, or induce the Company to use, any confidential or proprietary or trade secret information or material belonging to any previous employer or others. I will promptly notify the Company if I am given any assignment that might cause such breach. I also represent that I am not at the present time restricted from being employed by the Company, from performing the duties of my position with the Company, or from entering into this agreement; and I agree not to enter into any agreement, either written or oral, in conflict herewith. I commit that I will not bring onto the premises of the Company any unpublished, confidential, proprietary, or trade secret information, documents, or property belonging to my former employers or other third parties, unless consented to in writing by such employers or third parties. I understand that any misrepresentation, falsification, omission, or deception in this regard may lead to the termination of my employment, and the Company may seek indemnification against me for any damages caused thereby.
- 9. **Return of Company Information.** Subject, in each case, to the Employment Agreement between me and Orbotech Ltd., dated as of [ ], 20\_(the "Employment Agreement"): (a) in the event of the voluntary or involuntary termination of my employment for any reason whatsoever, or at the written request of the Company at any time, I agree that I will deliver to the Company without destruction (and will not keep in my possession or deliver to anyone else) any and all drafts, originals and copies of devices, tooling, records, manuals, procedures, software, data, notes, reports, proposals, lists and sources of customers, lists of employees, proposals, business plans and projections, reports, job notes, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, or any other documents or property obtained or prepared by me in the course of my employment, including materials from Affiliates, successors, assigns, third parties, or any customer of the Company (collectively, "Company Materials"), to the extent that any such Company Materials are material to the business of the Company or any Affiliate; and (b) I further acknowledge and agree that I will not take with me any description containing or pertaining to any Confidential Information, knowledge or data of the Company, to the extent such Confidential Information, knowledge or data is material to the business of the Company or any Affiliate, in each case, which I may produce or obtain during the course of my employment. In the event of the termination of my employment, I agree to sign and deliver a "Termination Certificate," in the form attached hereto as Exhibit B.

- 10. **Non-Solicitation.** During my employment and for a period of one (1) year after the voluntary or involuntary termination of my employment for any reason, in order to protect Confidential Information and enable the Company to maintain a stable work force and operate its business, I agree that I will not solicit nor encourage nor will I permit anyone under my authority or control to solicit or encourage any of the Company's employees, agents or consults to terminate their relationship with the Company. I understand that I may advertise job openings through media available to the general public and that I may hire Company employees who approach me for jobs on their own initiative. I agree that this provision contains restrictions that are not greater than necessary to protect the interests of the Company.
- 11. **Outside Activities During Employment**. Sections 1.10 and 1.11 of the Employment Agreement will apply to my engagement in other employment or business activities during the term of my employment.
- 12. **Remedy.** I acknowledge that the Company will not be reasonably or adequately compensated in damages if I breach my obligations under this Agreement. Therefore, and notwithstanding any arbitration agreements with the Company, if any, I acknowledge and agree that if there is a breach or threatened breach of any provisions of this Agreement that the Company or I shall be entitled to seek specific performance or an injunction without posting a bond restraining us from committing such breach. The parties' right to an injunction shall not limit its right to any other remedies, including damages.
- 13. **Modification**. This Agreement may not be changed, modified, released, discharged, abandoned, or otherwise amended, in whole or in part, except by an instrument in writing, signed by me and a Vice President of the Company or higher level executive.
- 14. **Severability**. In the event that any paragraph or provision of this Agreement shall be held to be illegal or unenforceable, such paragraph or provision shall be severed from this Agreement and the entire Agreement shall not fail on account thereof, but shall otherwise remain in full force and effect.
- 15. Effective Date. This Agreement shall be effective as of the date signed below
- 16. **Successors and Assigns.** This Agreement shall be binding upon my heirs, executors, administrators or other legal representatives and is for the benefit of the Company, its successors and assigns.
- 17. Governing law. This Agreement shall be governed by the laws of the State of Israel.
- 18. Entire Agreement. Except as expressly provided for in this Paragraph 18, I agree that this Agreement sets forth the entire agreement between me and the Company relating to the subject matter herein. I understand that to the extent that I have previously entered, or do hereinafter enter, into agreements with the Company that contain confidentiality, proprietary rights, and/or non-solicitation obligations that do not conflict with the provisions of this Agreement, such agreements shall continue in force, subject to, for the avoidance of doubt, any modification in accordance with the terms of the Employment Agreement. The provisions of this Agreement shall prevail over and supersede the provisions of such other agreements in the event of any conflict of terms.

Date:	Amichai Steimberg Printed Name of Employee
	Signature of Employee
	25

# EXHIBIT A

# LIST OF PRIOR INVENTIONS AND ORIGINAL WORKS OF AUTHORSHIP

TITLE	DATE	IDENTIFYING NUMBER OR BRIEF DESCRIPTION

# **EXHIBIT B**

#### TERMINATION CERTIFICATION

This is to certify that I have complied with <u>Section 9</u> of the Proprietary Information and Inventions Assignment Agreement to which this Termination Certificate is attached as <u>Exhibit B</u> (the "**PIIA**").

I further certify that I have complied with the terms of the PIIA with respect to the reporting of any Assignable Inventions (as defined therein) conceived or made by me (solely or jointly with others) covered by the PIIA.

I confirm that, in compliance with and subject to the terms of the PIIA, I will keep confidential all Confidential Information (as such term is defined in the PIIA).

Date:	Amichai Steimberg	Printed Name
		Signature

#### **EMPLOYMENT AGREEMENT**

THIS AGREEMENT is entered into as of February 20, 2019 by and between Orbotech Ltd., registration # 520035213, of 7 Sanhedrin Boulevard, North Industrial Zone, Yavne 8110101 Israel (the "Company") and Asher Levy, Israeli ID No. \_\_\_\_\_\_ of \_\_\_\_\_\_, Israel ("Employee").

WHEREAS: The Employee has been employed by the Company since November 1, 1990.

WHEREAS: The Company and Employee entered into an Employment Agreement dated November 22, 2012 (the "Original Employment Agreement").

WHEREAS: The Company and KLA-Tencor Corporation ("KLA") have entered into an Agreement and Plan of Merger dated March 18, 2018 (as may be amended from time to time, the "Merger Agreement"), pursuant to which the Company will become a wholly owned subsidiary of KLA (the consummation of the transactions contemplated by the Merger Agreement, the "Merger," and the date of such Merger, the "Closing Date").

**WHEREAS:** In connection with the Merger, the Company desires to continue the employment of Employee and Employee desires to continue such employment, on the terms and conditions hereinafter set forth.

NOW, THEREFORE, in consideration of the respective agreements of the parties contained herein, the parties agree as follows:

#### 1. Employment

- 1.1 Contingent upon the consummation of the Merger, this Agreement will commence and become effective on the Closing Date.
- On the Closing Date, Employee shall continue to be employed and will from that date be employed in the position of Chief Executive Officer of the Company (the "Position") and shall be under the direct supervision of Richard P. Wallace, President and Chief Executive Officer of KLA, or his successor holding such position. On the later of (i) March 1, 2019 and (ii) the first day of the second month following the month in which Closing occurs (the "Transition Date"), Employee's Position will transition to Senior Advisor of the Company and Employee shall continue to be under the direct supervision of Richard P. Wallace, President and Chief Executive Officer of KLA, or his successor holding such position. For the avoidance of any doubt, it is hereby clarified that for any and all purposes, Employee's seniority shall be calculated as of November 1, 1990.
- 1.3 Employee shall perform the duties, undertake the responsibilities and exercise the authority as determined from time to time by the Company or KLA and as customarily performed, undertaken and exercised by persons situated in a similar capacity. Employee's duties and responsibilities hereunder may also include other services performed for affiliates of the Company.
- During the course of employment with the Company, Employee shall honestly, diligently, skillfully and faithfully serve the Company. Employee undertakes to devote his professional efforts and the best of Employee's qualifications and skills to promoting the business and affairs of the Company on a full-time basis or otherwise, in each case, as described herein, and further undertakes to loyally and fully comply with the decisions of the Board of Directors. Employee shall at all times act in a manner suitable of Employee's position and status in the Company.
- 1.5 Employee promises to promptly notify the Company regarding any matter or subject in respect of which he has a personal interest which might create a conflict of interest with his position in the Company.

- Employee shall be employed on a full time basis, regularly 5 days a week (Sunday to Thursday), 42 hours a week. Saturday shall be the weekly day of rest of Employee. Employee will also work outside of regular working hours and outside of regular working days, as may be reasonably required by the Company from time to time. Following the Transition Date, the Employee shall be employed as a Senior Advisor on a part time basis, eight hours per week.
- 1.7 It is agreed that the Employee's position is a management one and/or which requires a special degree of personal trust, as defined in the Working Hours and Rest Law, 1951 (the "Working Hours and Rest Law"). Therefore, Employee shall not be granted any other compensation or payment other than expressly specified in this Agreement. Employee undertakes not to claim that the Working Hours and Rest Law applies to Employee's employment with the Company. Employee acknowledges the legitimacy of the Company's requirement to work "overtime" or during "weekly rest-hours" without being entitled to "overtime compensation" or "weekly rest-hour compensation" (as these terms are defined in the Working Hours and Rest Law), and Employee undertakes to reasonably comply with such requirements of the Company. Employee acknowledges that the compensation to which Employee is entitled pursuant to this Agreement constitutes adequate compensation for Employee's work during "overtime" or "weekly rest-hours".
- 1.8 Employee may be required to travel abroad from time to time, as part of Employee's position, and without entitlement to additional compensation for such traveling. All travel outside of Israel will be at least business class, to the extent such service is offered on such flight.
- 1.9 Employee hereby represents to the Company that there are no other undertakings or agreements preventing, restricting or limiting Employee from making the commitments described herein and performing the obligations under this Agreement, and Employee confirms that he is qualified and able to perform these obligations.
- During the term of this Agreement, prior to the Transition Date, Employee shall not be engaged in any other employment nor directly or indirectly engage in any other business activities in any capacity for any other person, firm or company whether or not for consideration, without the express prior written consent of KLA; provided, however, that Employee may continue to (i) serve as a passive investor in the equity of any business, provided that Employee is not otherwise involved in running such business and (ii) act in any advisory capacity with respect to any business for which Employee currently serves in such role as of the Closing Date, or serve in any similar role with respect to any similar business, provided that no such business is a Competitor (as defined below). Notwithstanding the foregoing, during the period during which Employee holds the Position, he may serve as a director on the board of directors of up to two public or private companies, provided the applicable company is not a Competitor. Following the Transition Date, Employee may serve as a director on any number of public or private companies without the need to obtain the Company's or KLA's consent. In addition, on and following the Transition Date, Employee will be permitted to engage in employment with another person, firm or company (including for consideration), provided that such person, firm or company is not a Competitor and such employment does not interfere with Employee's ability to fulfill his responsibilities hereunder.
- 1.11 For purposes of this Agreement, "Competitor" means any entity that through one or more direct or indirect parent companies or subsidiaries, derives revenue primarily from developing, manufacturing, designing, selling, reselling, licensing, leasing, servicing or distributing a Competing Product. A "Competing Product" means (i) inspection, metrology, defect review or process monitoring or control solutions for customers engaged in integrated circuit manufacturing, wafer manufacturing, reticle production, advanced semiconductor packaging, light emitting diode production, power device production, development of compound semiconductors, data storage media/head manufacturing, or microelectromechanical systems ("MEMS") manufacturing, (ii) inspection, test, measurement or process monitoring or control

solutions for customers engaged in the production of printed circuit boards or flat panel displays, and (iii) etch, physical vapor deposition, chemical vapor deposition or molecular vapor deposition equipment for use in the manufacture of semiconductor devices, such as MEMS, advanced semiconductor packaging, power and radio frequency devices and high brightness light emitting diode devices. If Employee engages in any other employment directly or indirectly with a Competitor, Employee will forfeit any eligibility to receive an Annual Bonus (as defined below) and 100% of Employees' then-outstanding and unvested Time-Based RSUs and Performance-Based RSUs (as defined below) will terminate for no consideration.

1.12 Subject to section 4 below and unless Employee and the Company agree otherwise in writing, this Agreement and Employee's employment with the Company shall terminate on December 31, 2019 (the "Termination Date"). Nothing contained herein shall bind the Company to continue to employ the Employee or bind the Employee to continue to work for the Company until the Termination Date.

# 2. Salary

- 2.1 Immediately following the Closing Date, the Company agrees to pay or cause to be paid to Employee during the term of this Agreement a gross salary of NIS 174,960 (one hundred and seventy-four thousand, nine hundred and sixty New Israeli Shekels)) per month (the "Salary"). On the Transition Date, the Salary will be changed to \$15,000 (fifteen thousand United States Dollars) per month, payable in New Israeli Shekels at the representative rate of exchange published by the Bank of Israel (the "Representative Rate of Exchange") as last published prior to the Transition Date.
- 2.2 The Salary will be paid no later than the 9<sup>th</sup> day of each month, one month in arrears, subject to deduction of any and all taxes and charges applicable to Employee. Employee shall notify the Company of any change which may affect Employee's tax liability.

## 3. <u>Employee</u>

#### **Benefits**

#### 3.1 <u>Pension Plan</u>.

The Company shall insure the Employee under an accepted 'Managers' Insurance' plan (the "Managers' Insurance Policy"), a Pension Fund (the "Pension Fund") or a combination of both, at Employee's choice, according to the following rates and conditions, it being agreed that the following percentages of the Employee's Salary shall be contributed by the Company whether or not they are recognized as an expense of the Company for tax purposes and, to the extent such contributions or any portion thereof shall be deemed taxable income of the Employee, they will be "grossed up" by the Company so that the Employee's net income shall not be adversely affected:

3.1.1	Managers' Policy:	Insurance
	3.1.1.1	Disability Insurance - The Company, at its own discretion and expense, shall purchase a disability insurance, under normal and acceptable conditions, which would insure 75% of the Salary (the " <b>Disability Insurance</b> "). The Company's contribution for Disability Insurance shall, in no circumstances, exceed the amount of $2\frac{1}{2}$ % of the Salary.
	3.1.1.2	Severance - an amount equal to 81/3% of the Salary;
	3.1.1.3	Company's contribution towards pension - the difference between 6.5% of the Salary and the actual percentage of the Salary contributed towards Disability Insurance, provided that the Company's contribution towards pension shall not be lesser than 5% of the Salary.
	3.1.1.4	Employee's contribution towards pension – 6% of the Salary.

- 3.1.2 <u>Pension Fund</u>: Severance an amount equal to 81/3% of the Salary; Pension an amount equal to 6.5% of the Salary. In addition, the Company will deduct from Employee's monthly paycheck a sum equal to 6% of the Salary as Employee's contribution.
- 3.2 Employee shall be entitled to instruct the Company to change Employee's contributions for pension to up to 7%.
- 3.3 Employee hereby agrees and acknowledges that the payments that the Company shall make to the abovementioned Managers' Insurance Policy and/or Pension Fund shall be in addition to the severance payments under Section 4.6 below but instead of any other severance pay to which Employee or Employee's heirs shall be entitled to receive from the Company with respect to the Salary from which these payments were made and the period during which they were made, in accordance with Section 14 of the Severance Pay Law 5723-1963, in accordance with the directives of the expansion order regarding pension insurance in the industry field. The Employee shall be entitled to all amounts accrued in such insurance policies and/or pension funds, including on account of severance, in the event of termination of employment, however arising.
- 3.4 <u>Sick Leave</u>. Employee will be entitled to sick leave as provided by law, provided however, that the Employee shall be entitled to full pay for any sick leave from the first day (inclusive). In the event that Employee receives payment of Disability Insurance, Employee will not be entitled to sick leave payments for the same time period.
- 3.5 <u>Annual Recreation Allowance (*Dme'i Havra'a*)</u>. Employee shall be entitled to an annual recreation allowance, according to the applicable expansion order, but not less than NIS 7,200 (seven thousand two hundred and seven New Israeli Shekels) per year, which amount shall be paid to Employee in cash.
- 3.6 <u>Vacation</u>. Employee shall be entitled to an annual vacation of 24 working days at full pay, in addition to national holidays in Israel. The dates of vacation will be coordinated between Employee and the Company. Subject to the provision of due and reasonable prior notice, the Company may require Employee to take vacation leave in accordance with applicable law. Employee may accrue vacation time up to the maximum permitted by the Company's policy as the policy may be amended from time to time. All accumulated vacation days will be redeemed in cash upon termination of employment.
- 3.7 <u>Educational Fund (*Keren Hishtalmut*)</u>. The Company will contribute to a recognized educational fund an amount equal to 7.5% of the Salary and will deduct from each monthly payment and contribute to such education fund an additional amount equal to 2.5% of the Salary. Employee shall bear all taxes resulting from contributions made to the educational fund in excess of the recognized ceiling for tax purposes.

# 3.8 <u>Company Car</u>.

3.8.1 The Company shall provide Employee with a motor vehicle of a make, model, and class no less than the current motor vehicle at his disposal, which shall be leased by the Company for use by Employee in accordance with Company policy in effect at the Closing Date. The Company will bear all expenses relating to the use of the motor vehicle, including maintenance, fuel and repairs in accordance with Company policy in effect at the Closing Date. Employee shall be responsible for payment of all fines, penalties and tickets relating to the use of the motor vehicle during the period it had been put at Employee's disposal, but will not be responsible, where applicable, for any penalties incurred as a result of the early return of the motor vehicle to the leasing company in connection with the termination of the Employee's employment for any reason whatsoever. Employee shall not have any lien with respect to the motor vehicle or any document or property relating thereto.

- 3.8.2 Any expenses, payments or other benefits that are borne by the Company in connection with the provision or use of the motor vehicle shall not be regarded as part of the Salary, for any purpose or matter, including without limitation for calculation of rights and entitlements that are derived from Salary or wages. Employee shall take good care of the motor vehicle and ensure that the provisions of the insurance policy and the Company's rules relating to the motor vehicle are strictly, lawfully and carefully observed. Employee is aware that in order to provide him with the motor vehicle the Company shall lease the motor vehicle from a leasing company, and Employee undertakes to strictly comply with the provisions of the leasing agreement.
- 3.8.3 The provision of the leased motor vehicle under this section 3.8 is in lieu of payment of a travel allowance
- 3.8.4 Employee will have continued use of the motor vehicle during the 6-month advance notice period referred to in Section 4.1 below, even if the Company terminates the employment relationship with immediate effect and pays the Employee the Advanced Notice Payment and for a further period thereafter until the earlier of: (i) 6 months following termination of the 6-month advance notice period, and (ii) Employee beginning full time employment with another employer. The current leasing arrangement of the Company enables continued leasing and use of the leased vehicle following termination of employment and the Company shall take all steps necessary to ensure that any future arrangement will similarly permit such continued use.
- 3.9 <u>Health and Dental Insurance</u>. Employee will be entitled to participate in Company's health insurance and dental insurance plans, subject to Company's policy as will be updated from time to time during the period of employment.

#### 3.10 Bonus/Incentive

#### Programs.

- 3.10.1 Subject to Section 3.10.2, in calendar year 2019, Employee's target bonus opportunity shall be equal to 100% of his annual Salary, calculated on the basis of a full year, as in effect prior to the Transition Date (the "Annual Bonus"). The amount of the Annual Bonus, if any, will depend on the achievement of the objectives set forth in Exhibit A (the "Annual Bonus Objectives"). KLA shall determine the achievement of the Annual Bonus Objectives, the entitlement to the Annual Bonus as well as the amount of the Annual Bonus in its sole and absolute discretion. The Annual Bonus shall be paid (if any) as soon as practicable after the Company determines that the Annual Bonus has been earned, subject to deduction of any and all taxes and charges applicable to Employee, but not later than March 31, 2020. The Annual Bonus will be paid to the Employee even if at the time of payment he is no longer an employee of the Company, provided he remains an employee through December 31, 2019
- 3.10.2 In the event the Merger has not occurred as of December 31, 2018, Employee will be entitled to payment of his annual bonus amount for calendar year 2019, as established by the Company prior to the Closing Date, based on the Company's achievement of the applicable performance metrics as determined by reference to the period from January 1, 2019 until the end of the Company's fiscal period in which the Closing Date occurs, taken as one period (the "Closing Fiscal Period"), with such payment prorated based on the number of days during the period beginning on January 1, 2019 and ending on the Closing Date (such pro-rated payment, the "Interim Annual Bonus"). For purposes of determining the applicable Interim Annual Bonus, the Company will prepare unaudited financial statements with respect to the Closing Fiscal Period, which shall be prepared on a basis consistent with the Company's pre-closing financial statements without giving effect to purchase accounting (the "Interim Financial").

**Statements**") and shall be subject to the review and final approval of KLA which review and approval shall not be unreasonably withheld, conditioned or delayed. The Interim Annual Bonus shall be paid to the Employee no later than 20 days following KLA's approval of the Interim Financial Statements, and, in any event, no later than 45 days after the date of the Company's preparation of the Interim Financial Statements. In addition, with respect to the period following the Closing Date and ending on December 31, 2019, Employee will be eligible to receive the 2019 Annual Bonus as provided for in Section 3.10.1 above, reduced by the amount of the Interim Annual Bonus (if any). Subject to the foregoing and for the avoidance of doubt, the bonus payments payable under Sections 3.10.1 and 3.10.2 will not be payable under any KLA bonus plan and are designed to replace and be in lieu of any other bonus, and Employee will not eligible to receive any annual bonus with respect to calendar year 2019 other than as provided herein.

- 3.10.3 Upon closing of the Merger Agreement, but in no event later than 10 business days following the Closing Date, the Company will pay Employee a cash bonus in an amount in NIS equivalent to USD 2,283,333.33 (two million two hundred eighty three thousand three hundred thirty three United States dollars and thirty three United States cents) calculated at the Representative Rate of Exchange last published prior to the date of payment, subject to deduction of any and all taxes and charges applicable to Employee (the "Closing Bonus").
- 3.10.4 To avoid doubt, no disbursements shall be made under Section 3.1 above with respect to any bonus or incentive payments, including the Annual Bonus and Closing Bonus, and bonus and incentive payments shall not be deemed a portion of Employee's Salary for any purpose, including without limitation, for calculation of rights and entitlements that are derived from Salary or wages.
- 3.11 <u>Cellular Phone</u>. Employee shall be entitled to receive a cellular phone from the Company, subject to Company's policy as shall be amended from time to time. The cellular phone (together with its accessories and phone number)will become the property of the Employee upon termination of employment, however arising.

# 3.12 <u>Performance-Based</u>

#### RSUs.

- 3.12.1 The Company hereby represents that KLA has, by its authorized corporate bodies, approved the grant to the Employee, no later than and effective as of immediately following the closing of the Merger, pursuant to KLA's 2004 Equity Incentive Plan (as amended, the "Plan"), of an award of performance-based restricted stock units settled in shares of KLA common stock (the "Performance-Based RSUs"). The target number of restricted stock units covered by the Performance-Based RSUs equals the quotient obtained by dividing (i) USD 2,830,000 (two million eight hundred and thirty thousand United States Dollars) (the "Performance-Based RSU Value") by (ii) the per share adjusted closing stock price of KLA common stock on the date of the closing of the Merger (the "Target"). The Performance-Based RSUs may vest at up to 200% of Target, as described in Section 3.12.3.
- 3.12.2 The Performance-Based RSUs are subject to vesting as follows: A percentage of the Target restricted stock units subject to the Performance-Based RSUs as determined in Section 3.12.3 below (the "Vesting Percentage") will vest on the earlier of (i) 12 months following the Closing Date, or (ii) the Termination Date, subject to Employee's continuing employment or service (including as a Senior Advisor) through such date, except as provided in Section 3.12.4.

- 3.12.3 The Vesting Percentage shall be determined based on the Company's achievement of the objectives (each an "Objective") in calendar year 2019, as set forth in Exhibit B.
- 3.12.4 If, prior to the applicable vesting date, Employee is terminated by the Company without Cause (as defined below), and Employee executes and delivers a release agreement in the form of <a href="Exhibit C">Exhibit C</a>, the Performance-Based RSUs will be canceled and in lieu thereof, the Company will pay Employee an amount in NIS equivalent to 100% of the Performance-Based RSU Value calculated at the Representative Rate of Exchange last published prior to the date of payment, subject to deduction of any and all taxes and charges applicable to Employee.
- 3.12.5 The Compensation Committee of the Board of Directors of KLA will review, determine, and approve the level of achievement of the Objectives and the applicable Vesting Percentage with respect to the Performance-Based RSUs. All determinations of Vesting Percentage and degree of achievement of Objectives will be made on or prior to March 31 of the year following the year with respect to which the Objectives are based. Employee will receive notification of the grant of the Performance-Based RSUs promptly following the date it is effective. The Performance-Based RSUs will be subject to the terms of the applicable grant document and the Plan and will be granted in accordance with Section 102 of the Israel Income Tax Ordinance through a trustee approved for such purposes by the Israel Income Tax Authority and pursuant to the "capital gains route" thereunder.

#### 3.13 <u>Time-Based RSUs</u>.

- 3.13.1 The Company hereby represents that KLA has, by its authorized corporate bodies, approved the grant to the Employee, no later than and effective as of immediately following the closing of the Merger, pursuant to the Plan, of an award of restricted stock units settled in shares of KLA common stock (the "Time-Based RSUs"). The number of restricted stock units covered by the Time-Based RSUs equals the quotient obtained by dividing (i) USD 1,886,666.67 (one million eight hundred and eighty six thousand six hundred and sixty six United States Dollars and sixty seven United States Cents) (the "Time-Based RSU Value") by (ii) the per share adjusted closing stock price of KLA common stock on the date of the closing of the Merger.
- 3.13.2 The Time-Based RSUs are subject to vesting as follows: (i) 50% of the Time-Based RSUs will vest on the earlier of (A) 6 months following the Closing Date, or (B) July 1, 2019, subject to Employee's continuing employment or service (including as a Senior Advisor) through such date, and (ii) 50% of the Time-Based RSUs will vest on the earlier of (X) 12 months following the Closing Date, or (Y) the Termination Date, subject to Employee's continuing employment or service (including as a Senior Advisor) through such date, except as provided in Section 3.13.3.
- 3.13.3 If Employee is terminated by the Company without Cause (as defined below), and Employee executes and delivers a release agreement in the form of Exhibit C, the Time-Based RSUs will be canceled and in lieu thereof, the Company will pay Employee an amount in NIS equivalent to (i) 50% of the Time-Based RSU Value if 50% of the Time-Based RSUs are vested as of the date of termination, or (ii) 100% of the Time-Based RSU Value if none of the Time-Based RSUs are vested as of the date of termination, in each instance, calculated at the Representative Rate of Exchange last published prior to the date of payment, subject to deduction of any and all taxes and charges applicable to Employee.

3.13.4 Employee will receive notification of the grant of the Time-Based RSUs promptly following the date it is effective. The Time-Based RSUs will be subject to the terms of the applicable grant document and the Plan and will be granted in accordance with Section 102 of the Israel Income Tax Ordinance through a trustee approved for such purposes by the Israel Income Tax Authority and pursuant to the "capital gains route" thereunder.

# 4. Term and

#### **Termination**

- 4.1 The term of employment under this Agreement will begin as of the Closing Date and will continue until the Termination Date unless either party provides the other party with a 6 month prior written notice, subject to sections 4.2 and 4.3. For avoidance of doubt, in the event the Company provides the Employee with a prior written notice of termination less than 6 months prior to the Termination Date, the Company shall pay to Employee an Advanced Notice Payment (as such term is defined below) with respect to a period of time that is equal to the difference between 6 months and the period of time prior to the Termination Date in which the notice was given.
- 4.2 Notwithstanding anything contained herein to the contrary, the Company at its sole discretion shall have the right to terminate the employment relationship with immediate effect or prior to the end of the notice period set forth above and pay Employee in lieu of advance notice or the remainder thereof the Employee's Salary and the value of all benefits (excluding bonuses or equity-related benefits referenced in Sections 3.10, 3.12 and 3.13) for such period (such payment, the "Advanced Notice Payment").
- 4.3 In addition, the Company shall have the right to terminate this Agreement at any time without a notice period or payment in lieu thereof in the event of termination for Cause (as defined below).
- 4.4 The term "Cause" shall mean (a) Employee's conviction of, or plea of nolo contendre to, a felony; (b) the Employee's gross misconduct; (c) any material act of personal dishonesty taken by the Employee in connection with his responsibilities as an employee or service provider of the Company or its subsidiaries; or (d) the Employee's willful and continued failure to perform the duties and responsibilities of his position after there has been delivered to the Employee a written demand for performance from the Company or the applicable subsidiary which describes the basis for the belief that the Employee has not substantially performed his duties and provides the Employee with 30 days to take corrective action.
- 4.5 In any event of termination of this Agreement, or otherwise upon the Company's request, except as otherwise provided herein, Employee shall immediately return, in proper form and working order, all Company and customer of the Company property, equipment, materials, documents, and data (without retaining copies, other than copies of any data and other information, including contact information, stored on Employee's cellular phone), to the extent that any such property, equipment, materials, documents, or data is material to the business of the Company or its affiliates and which, for the avoidance of doubt, shall not include any personal items in Employee's office; and Employee shall cooperate with the Company and use Employee's reasonable best efforts to assist with the transition of work as directed. At the option of the Company, Employee shall during such period either continue with Employee's duties or remain absent from the premises of the Company. Under no circumstances will Employee have a lien over any property (including data) provided by or belonging to the Company or customer of the Company.
- 4.6 (A) Upon any termination of employment, including any termination of employment by Employee, Employee will be entitled: (i) to a lump sum payment equal to the product of 200% of the Salary (based on Employee's most recent Salary prior to transitioning to Senior Advisor), multiplied by the number of years, including partial years, from November 1, 1990 until the Closing Date, less any amounts contributed by the Company and accumulated on account of severance pay with respect to such period in any Manager's Insurance Policy or Pension Fund

maintained by the Company for the Employee and which are released to the Employee upon termination of employment (the "Vested Retirement Payment Benefits"), and (ii) to a lump sum payment equal to 6 months' Salary (based on Employee's most recent Salary prior to transitioning to Senior Advisor) (the "Adjustment Period Benefits"); (B) in addition to the Vested Retirement Payment Benefits and the Adjustment Period Benefits, upon any termination of employment by Employee, Employee will be entitled to the following benefits: (i) a lump sum retirement payment equal to the product of 200% of Employee's Salary, based on Employee's most recent Salary prior to transitioning to Senior Advisor, multiplied by the number of years, including partial years, of his employment with the Company since the Closing Date until the date of termination, less any amounts contributed by the Company and accumulated on account of severance pay with respect to such period in any Manager's Insurance Policy or Pension Fund maintained by the Company for the Employee and which are released to the Employee upon termination of employment (the "Retirement Payment Benefits"), and (ii)vesting acceleration termination benefits as provided for in <u>Annex</u> A to the Original Employment Agreement as if the Employee had resigned due to an adverse change in his position within 12 months of a "Significant Event" (as defined in such <u>Annex A</u>), even if such resignation occurs more than 12 months following the approval by the Company's shareholders of the Merger, with respect to Employee's outstanding equity awards to purchase or receive shares of common stock of KLA (including those resulting from the assumption by KLA of equity awards granted by the Company prior to the closing of the Merger, but excluding the Performance-Based RSUs and the Time-Based RSUs with respect to which the provisions of Sections 3.12.4 and 3.13.3 above will apply); (the "Assumed Equity Award Acceleration Benefit"); (C) in addition to the Vested Retirement Payment Benefits and the Adjustment Period Benefits, (i) upon any involuntary termination of Employment, other than by the Company for Cause, Employee will be entitled to receive the Retirement Payment Benefits and; (ii) upon any involuntary termination of Employment for any reason Employee will be entitled to receive the Assumed Equity Award Acceleration Benefit; (D) if Employee remains in continuous employment with the Company until 24 months following approval by the Company's shareholders of the Merger, Employee will be entitled to the Assumed Equity Award Acceleration; and (E) if Employee remains in continuous employment with the Company through the Termination Date and Employee's employment terminates on such date, Employee will be entitled to receive the Adjustment Period Benefits, the Vested Retirement Payment Benefits, the Retirement Payment Benefits, the Assumed Equity Award Acceleration Benefit (to the extent not previously received pursuant to (D) above), and the Advanced Notice Payment.

For the avoidance of doubt, a "termination of employment" for all purposes of this Section 4.6 shall include a termination of employment as a result of Employee's death or disability.

# 5. <u>Confidentiality; Proprietary</u> Rights

- 5.1 Employee has executed and agrees to be bound by the provisions governing confidentiality, proprietary rights and non-competition contained in Exhibit D to this Agreement, which provisions will survive termination of this Agreement for any reason.
- 5.2 All of Employee's confidentiality, proprietary rights, non-solicitation, and non-competition obligations pursuant to the Employee's previous undertakings in favor of the Company will remain in full force and effect, except that all non-competition undertakings will expire upon termination of Employee's employment with the Company. In case of contradiction, between such previous undertakings and Exhibit D, Exhibit D will override.

# 6. <u>Successors</u> and Assigns

6.1 This Agreement shall be binding upon and shall inure to the benefit of the Company, its successors and assigns.

6.2 Neither this Agreement nor any right or interest hereunder shall be assignable or transferable by Employee, Employee's beneficiaries or legal representatives, except by will or by the laws of descent and distribution.

# 7. <u>Prevention of Sexual</u>

#### **Harassment**

7.1 The Company views violations of the Law for Prevention of Sexual Harassment (the "Law") in a severe light. Employee acknowledges being informed of the Company's policy regarding sexual harassment, including the existence of Company guidelines for the prevention of sexual harassment that may be received at any time from the employee in charge of enforcing the Law in the Company.

# 8. <u>Data and</u>

#### **Privacy**

- The use of the Company's (and Company affiliates') devices and equipment, including computers, e-mail accounts, phones, and so on, is intended for professional use and for executing Employee's duties in the Company and for reasonable personal use. The Company hereby notifies Employee that it uses its right to conduct inspections within the Company's offices and on the Company's and Company affiliates' equipment, including computers, cellular phones, and other devices, and, with respect to electronic mail, inspections of electronic mail transmissions sent or received through the e-mail account provided by the Company (the "Company's E-Mail Account"), and including internet usage and inspections of their content, inspections of phone usage and cellular company's bills and reports, all while safeguarding Employee's privacy and subject to applicable law. For the avoidance of doubt, subject to applicable law, any such examination's findings, except for Employee's personal matters, shall be the Company's sole property, and may be presented by the Company to third parties. Employee hereby consents to any reasonable use, transfer and disclosure of all work related messages and data contained or sent via the Company's computer and communications systems, including the Company's E-Mail Account. Employee shall fully comply with the Company's policies regarding use of electronic devices and networks, as may be in effect from time to time
- Employee grants consent to the Company and its affiliates, and its/their employees, wherever they may be located, to utilize and process Employee's personal information, including data collected by the Company for purposes related to Employee's employment. This may include transfer of Employee's personnel records outside of Israel and further transfers thereafter. All personnel records are considered confidential and access will be limited and restricted to individuals with need to know or process that information for purposes relating to Employee's employment only, such as management teams and human resource personnel. The Company may share personnel records as needed solely for such purposes with third parties assisting with human resources administration.

#### 9. Miscellaneous

- 9.1 All payments set forth in this Agreement are subject to withholding of applicable taxes, including national insurance payments. The Performance-Based RSUs and Time-Based RSUs have been or will be granted with dividend equivalent rights and, in accordance with Section 102 of the Israel Income Tax Ordinance through a trustee approved for such purposes by the Israel Income Tax Authority and pursuant to the "capital gains route" thereunder.
- 9.2 No provision of this Agreement may be modified, waived or discharged unless such waiver, modification or discharge is agreed to in writing and signed by Employee and the Company. No waiver by either party hereto at any time of any breach by the other party hereto of, or compliance with, any condition of this Agreement to be performed by such other party shall be deemed a waiver of similar or dissimilar provisions or conditions at the same or at any prior or subsequent

- time. This Agreement shall not be modified or otherwise affected by unwritten "customary practices" or the terms applying to other employees of the Company.
- 9.3 This Agreement constitutes the entire agreement between the parties hereto and supersedes all prior agreements, understandings and arrangements, oral or written, between the parties hereto with respect to the subject matter hereof (including, for the avoidance of doubt, the Original Employment Agreement), except as expressly set forth herein. No new agreements or arrangements shall apply unless a written agreement containing such agreements or arrangements was executed by both parties.
- 9.4 Employee will be subject to Company's policies, as set and updated from time to time, provided that, in accordance with the terms of the Merger Agreement, during the one-year period following the Merger such policies shall be no less favorable, in the aggregate, than those in effect as of immediately prior to the Merger.
- 9.5 This Agreement is personal and its terms are confidential, and, other than as otherwise disclosed in any public filings by the Company or KLA with the U.S. Securities and Exchange Commission, Employee undertakes to keep them as such; provided, however, that Employee may disclose such information to his legal counsel, tax advisors or financial planners on the condition that Employee shall first instruct such counsel, advisors or planners, as applicable, not to disclose such information to anyone or otherwise make use of such information outside the scope of their retention by Employee.
- 9.6 This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Israel.
- 9.7 In the event that any provision of this Agreement is held invalid or unenforceable in any circumstances by a court of competent jurisdiction, the remainder of this Agreement and the application of such provision in any other circumstances shall not be affected thereby, and the unenforceable provision shall be enforced to the maximum extent permissible under law or otherwise shall be replaced by an enforceable provision that most nearly approximates the intent of the unenforceable provision.
- 9.8 This Agreement and its annexes and exhibits constitute notice to Employee pursuant to the Notice to Employee (Employment Terms) Law 2002. Nothing contained in this Agreement is meant to derogate from Employee's right according to any applicable law or agreement.

Employees

IN WITNESS WHEREOF:

Date: February 20, 2019

Compone

Company:	Employee:			
Orbotech Ltd.	Asher Levy			
Signature: /s/ Bren D. Higgins	Signature: /s/ Asher Levy			
By: Bren D. Higgins	ID#:			
Title: Director	Date: February 20, 2019			

# EXHIBIT A ANNUAL BONUS OBJECTIVES

	Orbotech CY19 Annual Bonus Payout Table for Orbotech CEO & President/COO Only <sup>1</sup>										
Balanced	<del></del>			CY19 Non-GAPP Operating Margin (\$M) Performance							
Scorecard Performance ("BSc")	BSc Score	BSc Multiplier	<u>&lt;\$[**]</u>	<u>\$[**]</u>	<u>\$[**]</u>	<u>\$[**]</u>	<u>\$[**] 2</u>	<u>\$[**]</u>	<u>\$[**]</u>		
Far Exceeds Expectations	<u>5</u>	1.2	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**] <sup>0</sup> / <sub>0</sub> <sup>3</sup>		
Exceeds Expectations	<u>4</u>	1.1	0%	<u>[**]%</u>	<u>[**]%</u>	[**]%	[**]%	[**]%	[**] <sup>0</sup> / <sub>0</sub> <sup>3</sup>		
Primarily Meets Expectations	<u>3 ²</u>	<u>1.0 <sup>2</sup></u>	<u>0%</u>	<u>[**]%</u>	<u>[**]%</u>	<u>[**]%</u>	[**] <sup>0</sup> / <sub>0</sub> <sup>2</sup>	<u>[**]%</u>	[**] <sup>0</sup> / <sub>0</sub> <sup>3</sup>		
Below Expectations	<u>2</u>	<u>.9</u>	<u>0%</u>	<u>[**]%</u>	<u>[**]%</u>	[**]%	<u>[**]%</u>	[**] <sup>0</sup> / <sub>0</sub>	[**] <sup>0</sup> / <sub>0</sub> <sup>3</sup>		
Far Below Expectations	1	<u>.8</u>	0%	<u>[**]%</u>	<u>[**]%</u>	[**]%	<u>[**]%</u>	<u>[**]%</u>	[**] <sup>0</sup> / <sub>0</sub> _ <sup>3</sup>		
% of Plan				[**]%	[**]%	[**]%	[**]%	[**]%	[**]%		

<sup>&</sup>lt;sup>1</sup> The Annual Bonus Payout Table above applies only to the individuals holding the positions of CEO and President/COO of Orbotech Ltd. on the Closing Date of the Merger.

# <sup>2</sup> These numbers reflect CY19 Target BSc and Non-GAAP Operating Margin Performance.

<sup>3</sup> The payout multiple is capped at these amounts for each level of BSc performance.

# **CY19 BSc Performance Expectations**

For purposes of the Annual Bonus Objectives for the CEO and President/COO of Orbotech Ltd. (as those positions are occupied on the Closing Date of the Merger), the Performance Expectations shall be defined as follows:

# 1- Far Below

# **Expectations**

- A Failure to have a Plan in place within six (6) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) which would achieve at least a [\*\*] run rate cost savings within the two (2) years post-Closing; or
- Achieving less than 100% retention of the "Top 5" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19; or
- Achieving less than 85% retention of the "Next 21" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19.

#### 2- Below

#### **Expectations**

- A Failure to have a Plan in place within four (4) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) which would achieve at least a [\*\*] run rate cost savings within the two (2) years post-Closing; or
- Achieving less than 100% retention of the "Top 5" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19; or
- Achieving less than 90% retention of the "Next 21" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19.

# 3- Primarily Meets

#### **Expectations**

- A Having a Plan in place within four (4) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) to achieve a [\*\*] run rate cost savings within the two (2) years post-Closing; and
- Achieving 100% retention of the "Top 5" senior executives other than the CEO and the President/COO (specifically, [\*\*]) through CY19; and
- Achieving 90% or greater retention of the "Next 21" senior executives other than the CEO and President/COO (specifically, [\*\*1) through CY19.

# 4- Exceeds

# **Expectations**

- Having a Plan in place within four (4) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) to achieve a [\*\*] or greater run rate cost savings within two and one-half (2.5) years post-Closing, or a Plan with specific actions identified to achieve at least a [\*\*] run rate cost savings within two (2) years post-Closing while also identifying specific actions to achieve at least [\*\*] of such a run rate savings in CY2020; and
  - If applicable, successful execution/implementation against Orbotech specific actions in support of the \*\*! run rate savings identified above by the end of CY19; and
- Achieving 100% retention of the "Top 5" senior executives other than the CEO and President/COO (specifically [\*\*]) through CY19; and
- Achieving 95% retention or greater of the "Next 21" senior executives other than the CEO and President/COO (specifically, [\*\*]) through CY19.

# 5- Far Exceeds

# Expectations

A Having a Plan in place within six (6) months post-Closing with specific actions identified (to be taken both by KLA and Orbotech) to achieve an [\*\*] or greater run rate cost savings within two and one-half (2.5) years post-Closing, or a Plan with specific actions identified to achieve at least a [\*\*] run rate cost savings within two and one-half (2.5) years post-Closing while also

- identifying specific actions to achieve at least [\*\*] of such run rate savings in CY2020; and
- If applicable, successful execution/implementation against Orbotech specific actions in support of the \*[\*\*] or greater run rate savings identified above by the end of CY19; and
- Achieving 100% retention of "Top 5" senior executives other than the CEO and President/COO (specifically [\*\*]) through CY19; and
- Achieving 100% retention of "Next 21" senior executives other than the CEO and President/COO (specifically, [\*\*]) through CY19.
- 1) Within each BSc level, 70% weight is to be given to criteria "A", 20% weight to criteria "B", and 10% weight to criteria "C" as set forth in the descriptions set forth directly above.
- 2) KLA-Tencor ("KLA") agrees to cooperate in the synergy process and make it a priority.
- 3) Accounting and business model changes will be limited to those necessary to achieve synergy objectives and/or to align with KLA's existing control environment; to the extent such changes might impact the achievement of OM\$ and resultant PRSU payout, payout levels will be adjusted accordingly and correspondingly.
- 4) Orbotech organizational changes will be kept to a minimum through CY2020 and be limited to those necessary and aligned upon to achieve synergy objectives, and/or those necessary to align with KLA's existing control environment.
- 5) For purposes of defining retention, loss of an executive resulting from a death or due to a termination of an executive by Orbotech will not counted as a failure to retain.

# EXHIBIT B OBJECTIVES

Proposed ORBK CY 19 PRSU Payout table (POR as of 5/1/18)									
Balanced Scorecard Performance (BSc)	BSC Score	CY 1	CY 19 Non-GAAP Operating Margin (\$M) Performance						
		<[**]	[**]	[**]	[**]	[**]	[**]	[**]	
Far Exceeds Expectations	5	0%	[**]	[**]	[**]	[**]	[**]	[**]	
Exceeds Expectations	4	0%	[**]	[**]	[**]	[**]	[**]	[**]	
Primarily Meets Expectations	3	0%	[**]	[**]	[**]	[**]	[**]	[**]	
Below Expectations	2	0%	[**]	[**]	[**]	[**]	[**]	[**]	
Far Below Expectations	1	0%	[**]	[**]	[**]	[**]	[**]	[**]	
	% of Plan		[**]	[**]	[**]	[**]	[**]	[**]	

Payout table applies only to Orbotech CEO and President/COO

CY 19 Target BSc and Non-GAAP Operating Margin Performance

Payout multiple is capped at these amounts for level of BSc performance

CY19 BSc Performance	Expectations
1 – Far Below	
A	Failure to have a Plan in place within six (6) months post-close, or establishing a Plan with specific actions identified (to be taken both by KT and Orbotech) which would achieve less than [**] run rate cost savings within two (2) years post-close
В	Less than 100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19
C	Less than 85% retention of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19
2 – Below	
A	Failure to have a Plan in place within four (4) months post-close, and/or establishing a Plan with specific actions identified (to be taken both by KT and Orbotech) which would achieve less than [**] run rate cost savings within two (2) years post-close.
В	Less than 100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19.

C	Less than 90% retention of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19.
3 – Primarily Meets	
A	Plan in place within four (4) months post-close with specific actions identified (to be taken both by KT and Orbotech) to achieve [**] run rate cost savings within two (2) years post-close.
В	100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19.
C	90% retention or greater of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19.
4 – Exceeds	
A	Plan in place within four (4) months post-close with specific actions identified (to be taken both by KT and Orbotech) to achieve [**] or greater in run rate cost savings within two and one-half (2.5) years post-close while also identifying specific actions to achieve at least [**] of such run rate savings in CY2020.
A	If applicable, successful execution/implementation against Orbotech specific actions in support of the [**] run rate savings identified above by end of CY19.
В	100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [**]) through CY 19.
С	95% retention or greater of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19.
5 – Far Exceeds	
A	Plan in place within six (6) months post-close with specific actions identified (to be taken both by KT and Orbotech) to achieve [**] or greater in run rate cost savings within two and one-half (2.5) years post-close while also identifying specific actions to achieve at least [**] of such run rate savings in CY2020.
A	If applicable, successful execution/implementation against Orbotech specific actions in support of the [**] or greater run rate savings identified above by end of CY19.

В 100% retention of "Top 5" senior executives (other than CEO and President/COO; specifically [\*\*]) through CY 19.  $\mathbf{C}$ 100% retention or greater of "Next 20" senior executives (other than CEO and President/COO; to be identified by ORBK) through CY 19. 1) Within each BSc level, 70% weight to be given to "A", 20% weight to "B", and 10% weight to "C" 2) KLA-Tencor ("KLAT") agrees to cooperate in the synergy process and make it a priority 3) Accounting and business model changes will be limited to those necessary to achieve synergy objectives and/or to align with KLAT's existing control environment; to the extent such changes might impact the achievement of OM\$ and resultant PRSU payout, payout levels will be adjusted accordingly and correspondingly. 4) Orbotech organizational changes will be kept to a minimum through CY2020 and be limited to those necessary and aligned upon to achieve synergy objectives, and/or those necessary to align with KLAT's existing control environment. For purposes of defining retention, loss of an executive resulting from a death or due to a termination of an executive 5)

by Orbotech will not counted as a failure to retain.

#### **EXHIBIT C**

#### TERMINATION AND RELEASE AGREEMENT

I, the undersigned, Asher Levy, ID No. 055640791, hereby confirm, agree, and undertake as follows:

- 1. <u>Dates of Employment</u>: I began employment with [**Orbotech Ltd.**] or a predecessor in interest thereto ("**My Employer**") effective as of November 1, 1990. By mutual agreement, my employment with My Employer terminated effective [•] (the "**Termination Date**"). Capitalized terms not otherwise defined in this Termination and Release Agreement will have the meaning set forth in the Employment Agreement between me and the Orbotech Ltd. dated [ [ (the "**Employment Agreement**").
- 2. <u>Final Payments</u>: I acknowledge and agree that the payments and entitlements set forth in the attached **List of Final Payments** are the sole consideration to which I am entitled from My Employer and all of its respective affiliated, associated, parent, related and successor organizations (collectively, the "**Company**") relating to any matters arising out of my employment with My Employer or during the time of my employment with My Employer or the termination of said employment, and that there is no further obligation, financial or otherwise, owing to me by the Company. I further acknowledge and agree that the attached List of Final Payments includes certain benefits to which, pursuant to the Employment Agreement, I would not be entitled unless I enter into this Termination and Release Agreement.
- 3. Confirmation of No Claims: I confirm that upon receipt of the payments and entitlements listed in the attached List of Final Payments, I will have received all that I am entitled to for my work with My Employer and in connection with the termination of such employment (including but not limited to wages, overtime pay, annual leave and vacation pay, recuperation pay, remuneration of work on weekly rest, bonuses, royalties, intellectual property rights, options, stocks, pension, notice pay, severance pay, and other compensation in connection with my employment and the termination of that employment or claim or demand for any payment, benefit or rights of any kind in connection with my employment and the termination of that employment. I agree that, subject to such receipt and compliance by My Employer with the terms hereof, I will not commence any complaint, claim, or proceeding under any applicable law or agreement with respect to any aspect of my employment with My Employer or the cessation of that employment or alleging breach of any of the provisions of any employment agreement or law, except as otherwise provided herein.
- 4. Release of Claims: I RELEASE AND FOREVER DISCHARGE, the Company, its parent, subsidiaries, and affiliates and all of their respective agents, directors, employees, officers, owners and shareholders, administrators, and assigns (both individually and in their official capacities with the Company) (collectively, the "Released Parties") of and from any and all actions, causes of action, claims, complaints, debts, demands, liabilities and penalties, of every nature and kind which I or any of my heirs, executors, administrators or assigns has now or may have against any Released Parties, by reason of or arising out of any cause or matter existing up to the present time, whether legal or equitable and arising in contract, tort, or statute including without limitation, negligence, whether arising pursuant to Israeli law or otherwise, relating to any matters arising out of my employment or during the time of my employment or the cessation of said employment. Notwithstanding anything to the contrary in this Termination and Release Agreement or the Employment Agreement, nothing herein shall release any Released Parties from any claims or damages based on (a) any rights arising under, or preserved by, this Termination and Release Agreement, (b) any right or claim that arises after I execute this Termination and Release Agreement, (c) any right that is not waivable under applicable law, (d) any right to be insured, indemnified, exculpated or held harmless under the Company's articles of association and other similar organizational documents, any applicable agreement or undertaking or otherwise and (e) any continuing obligations of the Company under the Employment Agreement or under any agreements, plans, contracts, documents or programs described or referenced in the Employment Agreement. Without derogating in any way

from the above, I acknowledge that this release is a "Settlement and Acknowledgement of Discharge" as defined in Section 29 of the Severance Pay Law, 5723 - 1963.

- 5. <u>Confidentiality Commitment</u>: I confirm that I have continuing obligations not to disclose or make use of proprietary and confidential information as set forth in the Employee Proprietary Information and Invention Assignment Agreement between me and the Company dated as of \_\_\_\_\_ (the "PIIA") (including such other confidentiality and proprietary rights undertakings which I entered into during and in connection with my employment that, in accordance with the terms of the PIIA, continue after the termination of my employment), and I agree to honor those continuing obligations. I further acknowledge that I have continuing obligations pursuant to the PIIA to assist the Company or its nominee with respect to Assignable Inventions (as such term is defined in the PIIA), and I agree to honor those continuing obligations as well.
- 6. <u>Timing of Payments</u>: All payments and all letters of release referred to in the attached List of Final Payments will be paid or delivered to me, as applicable, within seven (7) days of the date hereof or such later date as contemplated by my Employment Agreement.
- 7. <u>Agreement Not to Disparage; Tortious Interference</u>: I agree to refrain from any disparagement or slander of the Company or tortious interference with the contracts and relationships of the Company.
- 8. Return of Property: I confirm that I have returned Company information and property to the extent required by Section 9 of the PIIA.
- 9. Return of Company Car: I confirm that I will have continued use of the motor vehicle that the Company provided to me during the six (6) month advance notice period referred to in the Employment Agreement and thereafter until the earlier of (i) six (6) months following termination of the six (6) month advance notice period; and (ii) my beginning full time employment with another employer; and I will return and deliver the motor vehicle to the Company's facilities at the earlier of such times, and the Company will continue to bear all expenses relating to the use of the motor vehicle, including maintenance, fuel and repairs through such time. I acknowledge that I am solely responsible for all fines, penalties and tickets associated with the use of such Company motor vehicle in accordance with the terms of my Employment Agreement through the date of actual return to the Company and that the Company is entitled to transfer any such citations to my name and to offset from any amounts payable to me any such fines, penalties and tickets that are not paid in full by me, provided that I will not be responsible, where applicable, for any penalties incurred as a result of the early return of the motor vehicle to the leasing company in connection with my termination of employment for any reason whatsoever.
- 10. <u>Legal Obligations</u>: I understand that my and the Company's obligations under this Termination and Release Agreement are in addition to those obligations under applicable law and do not derogate therefrom.
- 11. <u>Miscellaneous</u>: I confirm that prior to signing this Termination and Release Agreement, I carefully read it and that I understand its terms. I understand that this document, along with my Employment Agreement and the PIIA, constitutes the entire agreement between myself and My Employer with respect to the matters herein and supersedes all other agreements between myself and the Company, except as specifically set forth herein, and I confirm that I have not relied on any statement, written or oral, that is not set forth in this document with respect to the matters herein. I understand that this Termination and Release Agreement may be amended only be written agreement stating the intent to amend it that is signed by both me and an authorized representative of My Employer.

By my signature below, I confirm my agreement to the terms above.

Asher Levy	
	Dated:
Accepted and Agreed:	
Orbotech Ltd.	
	Ву:
	Title:

# ATTACHMENT TO TERMINATION AND RELEASE AGREEMENT

# LIST OF FINAL PAYMENTS

On or after the date of termination of your employment with the Company, but within the time period specified in <u>Section</u> 6 of the Termination and Release Agreement to which this list is attached, the Company shall pay and/or release to you the following amounts subject to any applicable withholding tax as may be required by law:

1.	Last Monthly Salary: Salary and benefits at the current monthly rate through the Termination Date
2.	Annual Bonus: A lump sum payment representing any earned but unpaid Annual Bonus (as determined in accordance with the Employment Agreement) in the amount of NIS, payable no later than March 31 of the year following the year in which such Annual Bonus was earned.
3.	Severance Pay (bituach minahalim): Release of all amounts accrued on account of severance pay (including any profits and interest with respect to such amounts) with respect to the period of your employment in the manager's insurance / pension fund(s) maintained for you. The Company will provide you with an appropriate letter of release addressed to the relevant manager's insurance / pension fund(s). Payment of Severance Pay will be made only after receiving all data from the funds and Form 161 signed by you and approved by the Israel Tax Authority (which Form 161 will be provided by the Company on or immediately following the Termination Date).
4.	Vacation Days: Payment for [] accrued and unused vacation days as of the Termination Date at the rate of NIS per day.
5.	Annual Recreation Allowance (d'mei havra'ah): NIS
6.	Education Fund (keren hishtalmut): Release of all amounts accrued in your Education Funds (NIS). The Company will provide you with an appropriate letter of release addressed to the relevant Education Fund(s).
7.	[Advance Notice Payment: A lump sum payment in the amount of NIS]
8.	Vested Retirement Payment Benefits: A lump sum payment in the amount of NIS
9.	Adjustment Period Benefits: A lump sum payment in the amount of NIS
10	Retirement Payment Benefits: A lump sum payment in the amount of NIS.
11	. Assumed Equity Award Acceleration Benefits: Accelerated vesting of KLA-Tencor [equity-based awards].
12	.Payment in lieu of Performance-Based RSUs: A lump sum payment in the amount of NIS
13	.Payment in Lieu of Time-Based RSUs: A lump sum payment in the amount of NIS
14	. Cellular Phone: The cellular phone provided to you by the Company (together with its accessories and phone number) will become your property. The Company will provide you with an appropriate letter of release/transfer to the relevant phone company in this regard.

# EXHIBIT D

#### ORBOTECH LTD.

#### EMPLOYEE PROPRIETARY INFORMATION AND INVENTIONS ASSIGNMENT AGREEMENT

ORBOTECH LTD., together with its parent company, subsidiaries, and affiliated entities, is engaged in the business of research and development within various global electronics manufacturing, semiconductor and related microelectronics industries.

I acknowledge and agree that my employment with Orbotech Ltd., its parent company or any subsidiary of Orbotech Ltd. or such parent company (each such parent company or subsidiary, an "Affiliate") creates a relationship of confidence and trust between me and Orbotech Ltd. or such Affiliate, as applicable (the relevant employing entity, shall hereinafter be called the "Company"), and that in such capacity I have a duty to maintain the secrecy of information that may be disclosed to me in the course of my employment.

In consideration of my employment and of the compensation paid therefore, I agree to the following:

- 1. Confidentiality. I understand that during the course of my employment I will have access to various forms of non-public information. I understand that in the context of this Employee Proprietary Information and Inventions Assignment Agreement ("Agreement"), "Confidential Information" means non-public information and know-how which I receive or discover in the course of my employment, including but not limited to that relating to inventions, trade secrets, products and prototypes, technical data, product plans, schematics and other drawings, manufacturing processes, research and development, specifications, designs, software, algorithms, hardware and software configurations, formulas, flow charts, services, test data, check lists, procedures, technical manuals (including those for installation and service), Company- or Affiliate-provided training, tooling, passwords, business strategies and plans, market analysis, marketing, marketing plans, finances, customer lists and information (including names and contact information), pricing information, financial data, personnel information (including employee lists and responsibilities), organizational structure, and/or proprietary information given to the Company in confidence by others. I acknowledge that although not all such data may have a proprietary legend, the Company considers all such non-public information to be proprietary. Except as the Company may otherwise consent to in a writing signed by a Vice President of the Company or higher level executive, I agree to keep confidential and not to disclose or make any use of any Confidential Information except for the benefit of the Company. This provision shall survive my employment but shall not apply after information has entered the public domain, other than by my breach of this Agreement. I acknowledge and agree that the disclosure or use of any Confidential Information by me, other than for the benefit of the Company, is wrongful and could cause irreparable harm to the Company.
- 2. **Assignment of Inventions.** I hereby assign and transfer to the Company my entire right, title and interest in and to all inventions (as used in this Agreement, "inventions" shall include ideas, works of authorship, improvements, designs and discoveries), whether or not patentable or copyrightable, which during the period of my employment I may conceive, make, develop, work on, or first reduce to practice, either solely or jointly with others, whether or not reduced to practice, drawings, written descriptions, documentation, models or other tangible form. The assignment requirement of the preceding sentence shall not apply to inventions (a) for which no equipment, supplies, facilitates, or trade secret information of the Company or any Affiliate was used, (b) which were developed entirely on my own time, (c) which do not relate to the business of the Company or any Affiliate or to the Company's or any Affiliate's actual or demonstrably anticipated research or development, and (d) which do not result from any work performed by me for the Company. If in the course of my employment I incorporate into a Company product, process or machine a Prior Invention (as defined in paragraph 6 below) owned by me or in which I have an interest, then, unless otherwise agreed in writing signed by a Vice President of the Company or higher level executive, the Company is hereby granted and shall have a nonexclusive,

royalty-free, irrevocable, perpetual, worldwide license to make, have made, modify, use and sell such Prior Invention as part of or in connection with such product, process or machine.

For the removal of any doubt, all inventions required to be assigned by paragraph 2 above ("Assignable Inventions") shall be deemed, to the extent applicable, "Service Inventions" as defined in the Israeli Patent Law, 1967 (the "Patent Law"), it being clarified that under no circumstances will I be deemed to have any proprietary right in any such Service Invention, notwithstanding the provision or non-provision of any notice of an invention and/or company response to any such notice, under Section 132(b) of the Patent Law. This agreement is expressly intended to be an agreement with regard to the terms and conditions of consideration for Service Inventions in accordance with Section 134 of the Patent Law. I specifically acknowledge and agree that my duties with the Company may entail the invention and development of new ideas, technologies, products and other confidential and proprietary information, and that the creation of any such intellectual property is an inherent part of my duties with the Company. I further acknowledge and agree that I will not be entitled to additional royalties, consideration or other payments with regard to any Service Inventions, including any commercialization thereof, and do hereby explicitly, irrevocably and unconditionally waive the right to receive any such additional royalties, consideration or other payments. Without derogating from the aforesaid, it is hereby clarified that the level of my compensation and consideration has been established based upon the aforementioned waiver of rights to receive any such additional royalties, consideration or other payments, and that my compensation as a service provider and/or employee of the Company includes full and final compensation and consideration to which I may be entitled under law with respect to any Assignable Inventions, Service Invention, or any of the intellectual property rights set forth above.

- 3. **Disclosure of Inventions; Patents; Publication.** I agree that in connection with any Assignable Invention:
  - (a) I will disclose such Assignable Invention promptly in writing to my manager, with a copy to the Company's Legal Department. Such disclosure shall be received in confidence by the Company;
  - (b) I will, at the Company's request, promptly execute a written assignment of title to the Company for any such Assignable Invention and I will preserve any such Assignable Invention as confidential information of the Company;
  - (c) Upon request, I agree to reasonably assist the Company or its nominee (at its expense) during and at any time subsequent to my employment in every reasonable way to obtain for its own benefit patents, copyrights or other statutory protection for such Assignable Inventions in any and all countries, which inventions shall be and remain the sole and exclusive property of the Company or its nominee whether or not patented, copyrighted, or otherwise protected by statute; and
  - (d) I will not publish or cause to be published information on any such Assignable Invention. I recognize the right of ownership that the Company has to any publication relating to inventions belonging to the Company, and acknowledge my obligation to obtain clearance from the Company in advance of publishing on any such Assignable Invention.
- 4. **Execution of Documents.** In connection with paragraph 3(c) above, I further agree during my employment and thereafter to execute, acknowledge and deliver to the Company or its nominee upon request and at its expense all such documents, including applications for patents, copyrights, or other statutory protection to be issued therefore, as the Company may determine necessary or desirable to apply for and obtain on such assignable inventions in any and all countries and/or to protect the interest of the Company or its nominee in such inventions and to vest title thereto in the Company or its nominee. If the Company is unable because of my mental or physical incapacity or for any other reason to secure my signature to apply for or to pursue any application for any United States or foreign letters patent or copyright registrations covering inventions or original works of authorship assigned to the Company as above, then I hereby irrevocably designate and appoint the Company and its duly authorized officers

and agents as my agent and attorney in fact, to act for and in my behalf and stead, to execute and further the prosecution and issuance of letters patent or copyright registrations thereon with the same legal force and effect as if executed by me. I hereby waive and quitclaim to the Company any and all claims, of any nature whatsoever, which I now or may hereafter have for infringement of any patents or copyright resulting from any such application for letters patent or copyright registration assigned hereunder to the Company.

- 5. **Maintenance of Records**. I agree to keep and maintain adequate and current written records of all Assignable Inventions made by me (in the form of notes, sketches, drawings and as may be specified by the Company), which records shall at all times be available to and remain the property of the Company.
- 6. **Prior Inventions.** I understand that all inventions, if any, whether or not patented or copyrighted or otherwise protected by statutes, which I made prior to my employment, are excluded from the scope of this agreement. To preclude any possible uncertainty, I have set forth below in <a href="Exhibit A">Exhibit A</a> a complete list of all my prior inventions, including numbers of all patents, patent applications, copyrights registered in my name and mask works. I represent and covenant that the list is complete and that, if no items are on the list, I have no such prior inventions.
- 7. Other Obligations. I acknowledge that the Company from time to time may have agreements with other persons or with governmental authorities, or agencies thereof, which impose obligations or restrictions on the Company regarding inventions made during the course of work thereunder or regarding the confidential nature of such work. I agree to be bound by all such obligations and restrictions.
- 8. **Trade Secrets of Others.** I acknowledge and agree that my performance of all the terms of this Agreement does not and will not breach any agreement to keep in confidence proprietary information, knowledge or data acquired by me in confidence or in trust prior to my employment with the Company and I will not use or disclose to the Company, or induce the Company to use, any confidential or proprietary or trade secret information or material belonging to any previous employer or others. I will promptly notify the Company if I am given any assignment that might cause such breach. I also represent that I am not at the present time restricted from being employed by the Company, from performing the duties of my position with the Company, or from entering into this agreement; and I agree not to enter into any agreement, either written or oral, in conflict herewith. I commit that I will not bring onto the premises of the Company any unpublished, confidential, proprietary, or trade secret information, documents, or property belonging to my former employers or other third parties, unless consented to in writing by such employers or third parties. I understand that any misrepresentation, falsification, omission, or deception in this regard may lead to the termination of my employment, and the Company may seek indemnification against me for any damages caused thereby.
- 9. **Return of Company Information**. Subject, in each case, to the Employment Agreement between me and Orbotech Ltd., dated as of [ ], 20\_(the "Employment Agreement"): (a) in the event of the voluntary or involuntary termination of my employment for any reason whatsoever, or at the written request of the Company at any time, I agree that I will deliver to the Company without destruction (and will not keep in my possession or deliver to anyone else) any and all drafts, originals and copies of devices, tooling, records, manuals, procedures, software, data, notes, reports, proposals, lists and sources of customers, lists of employees, proposals, business plans and projections, reports, job notes, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, or any other documents or property obtained or prepared by me in the course of my employment, including materials from Affiliates, successors, assigns, third parties, or any customer of the Company (collectively, "Company Materials"), to the extent that any such Company Materials are material to the business of the Company or any Affiliate; and (b) I further acknowledge and agree that I will not take with me any description containing or pertaining to any Confidential Information, knowledge or data of the Company, to the extent such Confidential Information, knowledge or data is material to the business of the Company or any Affiliate, in each case, which I may produce or obtain during the course of my employment. In

the event of the termination of my employment, I agree to sign and deliver a "Termination Certificate," in the form attached hereto as Exhibit B.

- 10. **Non-Solicitation**. During my employment and for a period of one (1) year after the voluntary or involuntary termination of my employment for any reason, in order to protect Confidential Information and enable the Company to maintain a stable work force and operate its business, I agree that I will not solicit nor encourage nor will I permit anyone under my authority or control to solicit or encourage any of the Company's employees, agents or consults to terminate their relationship with the Company. I understand that I may advertise job openings through media available to the general public and that I may hire Company employees who approach me for jobs on their own initiative. I agree that this provision contains restrictions that are not greater than necessary to protect the interests of the Company.
- 11. **Outside Activities During Employment**. Sections 1.10 and 1.11 of the Employment Agreement will apply to my engagement in other employment or business activities during the term of my employment.
- 12. **Remedy.** I acknowledge that the Company will not be reasonably or adequately compensated in damages if I breach my obligations under this Agreement. Therefore, and notwithstanding any arbitration agreements with the Company, if any, I acknowledge and agree that if there is a breach or threatened breach of any provisions of this Agreement that the Company or I shall be entitled to seek specific performance or an injunction without posting a bond restraining us from committing such breach. The parties' right to an injunction shall not limit its right to any other remedies, including damages.
- 13. **Modification.** This Agreement may not be changed, modified, released, discharged, abandoned, or otherwise amended, in whole or in part, except by an instrument in writing, signed by me and a Vice President of the Company or higher level executive.
- 14. **Severability.** In the event that any paragraph or provision of this Agreement shall be held to be illegal or unenforceable, such paragraph or provision shall be severed from this Agreement and the entire Agreement shall not fail on account thereof, but shall otherwise remain in full force and effect.
- 15. **Effective Date.** This Agreement shall be effective as of the date signed below.
- 16. **Successors and Assigns**. This Agreement shall be binding upon my heirs, executors, administrators or other legal representatives and is for the benefit of the Company, its successors and assigns.
- 17. Governing law. This Agreement shall be governed by the laws of the State of Israel.
- 18. Entire Agreement. Except as expressly provided for in this Paragraph 18, I agree that this Agreement sets forth the entire agreement between me and the Company relating to the subject matter herein. I understand that to the extent that I have previously entered, or do hereinafter enter, into agreements with the Company that contain confidentiality, proprietary rights, and/or non-solicitation obligations that do not conflict with the provisions of this Agreement, such agreements shall continue in force, subject to, for the avoidance of doubt, any modification in accordance with the terms of the Employment Agreement. The provisions of this Agreement shall prevail over and supersede the provisions of such other agreements in the event of any conflict of terms.

Date:	
	Printed Name of Employee
	Signature of Employee

# EXHIBIT A

# LIST OF PRIOR INVENTIONS AND ORIGINAL WORKS OF AUTHORSHIP

TITLE	DATE	IDENTIFYING NUMBER OR BRIEF DESCRIPTION

# EXHIBIT B TERMINATION CERTIFICATION

This is to certify that I have complied with <u>Section 9</u> of the Proprietary Information and Inventions Assignment Agreement to which this Termination Certificate is attached as <u>Exhibit B</u> (the "**PIIA**").

I further certify that I have complied with the terms of the PIIA with respect to the reporting of any Assignable Inventions (as defined therein) conceived or made by me (solely or jointly with others) covered by the PIIA.

I confirm that, in compliance with and subject to the terms of the PIIA, I will keep confidential all Confidential Information (as such term is defined in the PIIA).

Date:	Printed Name
	Signature —

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#### **CY19 EXECUTIVE INCENTIVE PLAN**

(Annual Executive Bonus)

#### **Plan Summary**

This KLA Executive Incentive Plan (the "Plan") is intended to motivate senior executives to achieve short-term and long-term corporate objectives by providing a competitive bonus for target performance and potential upside for outstanding performance.

#### **Plan Period**

This Plan is effective for the calendar year period from January 1, 2019 through December 31, 2019 (the "Plan Period"). Newly eligible employees (e.g., employees promoted to an incentive-eligible position for the first time or a new hire) must be in an eligible position on or before October 1, 2019 as recorded in the HR system in order to qualify for participation in this Plan Period.

#### **Eligible Positions**

The Company's Chief Executive Officer ("CEO") and employees holding a position at the X2 or F2 level and above (collectively, with the CEO, "Executives") are eligible to participate in the Plan.

# **Program Payments**

Bonus payments, based on performance during the Plan Period, will be paid within 90 days following December 31, 2019. Bonus calculations are based on paid base salary for the applicable Plan Period. Paid base salary includes base salary and seasonal bonuses paid in some countries if the seasonal bonus is considered a component of the employee's annual salary. Paid base salary does not include relocation allowances and reimbursements, tuition reimbursements, car/transportation allowances, expatriate allowances, commissions, long-term disability payments, or bonuses paid during the Plan Period. A participant must be a regular, active employee of the Company on the date of the payout in order to receive payment. Employees who are promoted or hired into an eligible position during the Plan Period (on or before October 1, 2019) will have their payouts calculated on paid salary from the effective date of the promotion or hire, as recorded in the HR system. If an employee's target bonus changes during the year, the payout will be prorated.

#### **Target Bonus**

A target bonus is established as a percent of base salary for each Plan participant.

#### **Funding Threshold**

Total available funding for the Plan will be determined by performance against a threshold level as measured by Balanced Scorecard and Operating Margin ("OM")\* performance for the Plan Period. The Plan will be fully funded (equivalent to the dollar sum, for all Plan participants in the aggregate, of 2 times the product of each Plan participant's target bonus percentage and paid base salary during the Plan Period) upon achievement of OM Performance of \$[\*\*]. This fully funded amount represents the maximum bonus opportunity for all Plan participants in the aggregate and the maximum total cost of the Plan.

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#### Performance Matrix and Determination of Funding Available for Bonus Payments

The level of funding available for payment to participating Executives will be based on performance as measured against the Corporate Balanced Scorecard and OM performance, as provided in the table ("Final CY19 Executive Bonus Payout Table") below. Amounts in the table represent the funding multiple. The total level of funding available will be equivalent to the dollar sum, for all Plan participants in the aggregate, of the product of each Plan participant's target bonus percentage and paid base salary during the Plan period times the funding multiple.

CY19 Executive Bonus Funding Table									
Balanced Scorecard Performance		Operating Margin (\$M) Performance							
		<[**]	[**]	[**]	[**]	[**]	[**]	[**]	[**]
Exceptional 5	5	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
4	4+	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
4	4	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
3	3+	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
Primarily Meets Expectations 3	3	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
2	2+	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
2	2	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
1	1+	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]
Opportunity for Improvement 1	1	0%	[**]	[**]	[**]	[**]	[**]	[**]	[**]

CY19 Target BSc and Non-GAAP Operating Margin Performance
Multiple cannot exceed 200% regardless of performance

#### **Individual Performance and Determination of Executive Bonus Payments**

The actual bonus payment amount for each individual Executive (other than the CEO) will be based on the CEO's assessment of the Executive's performance for the Plan Period and determination of the Executive's bonus achievement as a percentage of the Executive's bonus target. Each Executive's performance will be evaluated based on how effectively that Executive led his or her organization as demonstrated against the key Balanced Scorecard measures and objectives for the Executive's respective organization. The bonus achievement percentage and resultant bonus payment for each Plan participant who is an executive officer of the Company for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, with the exception of the CEO, will be recommended by the CEO and reviewed and approved by the Compensation Committee. The bonus achievement percentage and resultant bonus payment for the CEO will be determined and approved by the Company's Board of Directors (with the CEO recusing himself). The bonus achievement percentage and final bonus payment for all other Plan participants will be reviewed and approved by the CEO.

#### **Bonus Calculation**

The formula for a participant's bonus calculation is:

Participant's paid base salary for the Plan Period x Participant's target bonus percentage

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#### x Participant's bonus achievement percentage

In no event can a bonus payment to a participant exceed 2 times such participant's target bonus (i.e., 2 times the product of the participant's paid base salary for the Plan Period times the participant's target bonus percentage).

#### **General Provisions**

The Compensation Committee (or the independent members of the Company's Board of Directors (the "Independent Directors")) shall be the Plan Administrator. The Compensation Committee (or the Independent Directors) shall make such rules, regulations, interpretations and computations and shall take such other action to administer the Plan as it may deem appropriate. The establishment of the Plan shall not confer any legal rights upon any employee or other person for a continuation of employment, nor shall it interfere with the rights of the Company to discharge any employee and to treat him or her without regard to the effect which that treatment might have upon him or her as a participant in the Plan.

This Plan shall be construed, administered and enforced by the Compensation Committee (or the Independent Directors), in its sole discretion. The laws of the State of California will govern any legal dispute involving the Plan. The Compensation Committee (or the Independent Directors) may at any time alter, amend or terminate the Plan in its sole discretion.

This Plan is adopted pursuant to the KLA Performance Bonus Plan and sets forth the terms and conditions for the calendar year 2019 annual incentive program for Executives.

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<sup>\*</sup> References in this Plan to Operating Margin refer to the Company's calculation of non-GAAP Operating Margin

#### Certification of Chief Executive Officer Pursuant to Exchange Act Rule 13a-14(a)/15d-14(a) As Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

#### I, Richard P. Wallace, certify that:

- 1 I have reviewed this Quarterly Report on Form 10-Q of KLA-Tencor Corporation:
- 2 Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3 Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4 The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5 The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

May 8, 2019	/s/ RICHARD P. WALLACE
(Date)	Richard P. Wallace
	President and Chief Executive Officer
	(Principal Executive Officer)

#### Certification of Chief Financial Officer Pursuant to Exchange Act Rule 13a-14(a)/15d-14(a) As Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

#### I, Bren D. Higgins, certify that:

- I have reviewed this Quarterly Report on Form 10-Q of KLA-Tencor Corporation;
- 2 Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3 Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4 The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5 The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

May 8, 2019	/s/ BREN D. HIGGINS
(Date)	Bren D. Higgins
	Executive Vice President and Chief Financial Officer
	(Principal Financial Officer)

# CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Richard P. Wallace, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of KLA-Tencor Corporation on Form 10-Q for the fiscal quarter ended March 31, 2019 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Quarterly Report on Form 10-Q fairly presents in all material respects the financial condition and results of operations of KLA-Tencor Corporation.

May 8, 2019	By:	/s/ RICHARD P. WALLACE	
(Date)	Name:	Richard P. Wallace	
	Title:	President and Chief Executive Officer	
	CERTIFICATION OF CHIEF FIN	ANCIAL OFFICED	
	PURSUANT TO		
	18 U.S.C. SECTION		
	AS ADOPTED PURSU		
	SECTION 906 OF THE SARBANES-	OVIEW ACT OF 2002	

I, Bren D. Higgins, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of KLA-Tencor Corporation on Form 10-Q for the fiscal quarter ended March 31, 2019 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Quarterly Report on Form 10-Q fairly presents in all material respects the financial condition and results of operations of KLA-Tencor Corporation.

May 8, 2019	By:	/s/ BREN D. HIGGINS
(Date)	Name:	Bren D. Higgins
	Title:	Executive Vice President and Chief Financial Officer