

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response...	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person * WALLACE RICHARD P	2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) President and CEO
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 08/07/2018	
(Street) MILPITAS, CA 95035	4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
(City) (State) (Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned	

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	08/07/2018		S		13,269 (1)	D	\$ 117.655 (2)	53,634	D	
Common Stock	08/07/2018		S		3,283 (1)	D	\$ 118.441 (3)	50,351	D	
Common Stock	08/07/2018		S		5,574 (1)	D	\$ 117.682 (2)	44,777	D	
Common Stock	08/07/2018		S		1,100 (1)	D	\$ 118.542 (4)	43,677	D	
Common Stock - Restricted Stock Units (5)	08/07/2018		M		25,740 (6)	D	\$ 0	173,607 (7)	D	
Common Stock	08/07/2018		M		25,740 (6)	A	\$ 0	69,417	D	
Common Stock	08/07/2018		F		12,762 (8)	D	\$ 118.16	56,655	D	
Common Stock - Restricted Stock Units (5)	08/07/2018		M		11,000 (9)	D	\$ 0	162,607 (7)	D	
Common Stock	08/07/2018		M		11,000 (9)	A	\$ 0	67,655	D	
Common Stock	08/07/2018		F		5,454 (8)	D	\$ 118.16	62,201	D	
Common Stock								9,182	I	By Trust (10)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)


Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
WALLACE RICHARD P C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	X		President and CEO	

Signatures

/s/ Teri Little as Attorney-in-Fact for Richard P. Wallace		08/09/2018
		Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on November 1, 2017.
 - (2) Represents the weighted average sales price for the shares. The sales prices ranged from \$117.14 to \$118.13. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
 - (3) Represents the weighted average sales price for the shares. The sales prices ranged from \$118.15 to \$119.10. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
 - (4) Represents the weighted average sales price for the shares. The sales prices ranged from \$118.17 to \$119.10. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
 - (5) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
On August 7, 2014, in addition to the RSUs granted on that date that were subject only to service-vesting requirements (which RSUs were previously reported on Form 4), the Reporting Person was also granted RSUs covering up to a maximum of 55,000 shares (based on 125% of the target shares of 44,000) of KLA-Tencor common stock, subject to both performance-vesting and service-vesting requirements. On August 31, 2017 the independent members of the KLA-Tencor Board of Directors determined the level at which the corporate performance goals were attained and, based on the assessment, determined that the number of shares subject to the RSUs is 51,480. On August 7, 2018, the remaining 50% of the unvested shares vested.
 - (7) Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made regarding the achievement of the applicable performance goals. Any such holdings will be reported on a Form 4 within two business days of the date such assessment is made.
Pursuant to the terms of the grant, shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding. The fair market value of
 - (8) KLA-Tencor common stock used for purposes of calculating the number of shares to be withheld was the closing price of KLA-Tencor common stock as reported on August 7, 2018.
 - (9) On August 7, 2014, the Reporting Person was granted an RSU for 44,000 shares of KLA-Tencor Common Stock. On August 7, 2018, 25% of those shares vested.
 - (10) Shares held under the Wallace Living Trust u/a/d 03/27/01, as amended, a trust of which the Reporting Person is a trustee and beneficiary.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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