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

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

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SEC 1474 (9-02)

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)		n								
1. Name and Address of Reporting Per Trafas Brian M.	2. Issuer Name ar KLA TENCOR			0.	ool	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) C/O KLA-TENCOR CORPOR TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 08/02/2018						X Officer (give title below) Other (specify below) Executive Vice President Image: Comparison of the president Image: Comparison of the president			
(Street) MILPITAS, CA 95035	4. If Amendment, I	Date Origin	al Fil	led(Month/D	ay/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person 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)	•	Code (Instr. 8)		*		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: of India Benefit	Beneficial
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock - Restricted Stock Units (1)	08/02/2018		А		9,196 (2)	А	\$ 0	51,454 ⁽³⁾	D	
Common Stock - Restricted Stock Units (1)	08/02/2018		А		10,912 (<u>4</u>)	А	\$ 0	62,366 (<u>3)</u>	D	

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.	5	5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	n N	Number and Expiration Date A		Amount of Derivative		Derivative	Ownership	of Indirect			
Security	or Exercise	(Month/Day/Year)	any	Code	0	of (Month/Day/Year) U		Underlying Security		Securities	Form of	Beneficial			
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Γ	Deriva	ative			Secur	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Securities ((Instr. 3 and			Owned	Security:	(Instr. 4)		
	Security				P	4cqui	red			4)			Following	Direct (D)	
					(.	A) or							Reported	or Indirect	
					Γ	Dispo	sed						Transaction(s)	(I)	
					0	of (D))						(Instr. 4)	(Instr. 4)	
						(Instr. 3,									
					4	4, and 5)									
											Amount				
								Date	Expiration		or				
								Exercisable	*	Title 1	Number				
								Exercisable	Date		of				
				Code V	V ((A)	(D)				Shares				

Reporting Owners

	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
Trafas Brian M. C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			Executive Vice President						

Signatures

/s/ Teri Little as Attorney-in-Fact for Brian M. Trafas	08/06/2018

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) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) On August 2, 2018, the Compensation Committee granted the reporting person an RSU that vests 25% each year from the date of grant, subject to the reporting person being a service provider on each vesting date.
- (3) 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.

On August 6, 2015, 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 11,000 shares (based on 125% of the target shares of 8,800) of KLA-Tencor common stock,

(4) the Reporting Person was also granted RSOs covering up to a maximum of 11,000 shares (based on 125% of the target shares of 8,800) of RLA-fencor common stock, subject to both performance-vesting and service-vesting requirements. On August 2, 2018 the Compensation Committee of the KLA-fencor 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 10,912.

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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