FORM	4
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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)											
1. Name and Address of Reporting Per Trafas Brian M.	2. Issuer Name an KLA TENCOR			<i>.</i> .	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 7 11/01/2017	Fransactior	n (Mo	onth/Day/Y	(ear)		XOfficer (give title below) Other (specify below) Executive Vice President				
(Street) MILPITAS, CA 95035	4. If Amendment, I	Date Origin	al Fil	ed(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)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr. 8)	ode (nstr. 8) (ties Acc isposed 4 and 5	of	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Ownership Form:	Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price		(I) (Instr. 4)	(1130. 4)	
Common Stock - Restricted Stock Units (1)	11/01/2017		А		7,029 (2)	А	\$0	45,372 ⁽³⁾	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.	1	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	on 1	Number		and Expiration Date		Amount of		Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	(of		(Month/Day/Year)		Underlying S		Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)]	Derivative				Securities		(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Securities			(Instr. 3 and			Owned	Security:	(Instr. 4)	
	Security				4	Acqui	ired			4)			Following	Direct (D)	
					(A) or							1	or Indirect		
					Disposed							Transaction(s)	< / .		
						of (D)							(Instr. 4)	(Instr. 4)	
						(Instr. 3,									
					4	4, and 5)									
											Amount				
								Date	Emination		or				
								Exercisable	Expiration	Title	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
 11/01/2017

 Signature of Reporting Person
 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) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) 25% of the award vests on each anniversary of the date of grant, subject to continued service on such 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.

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

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