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

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

Name and Address of Reporting Person* Trafas Brian M.						2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]										Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last)	(Fir.	st) (N	Middle))	3. Dat 02/01		st Tran	saction (N	n/Day/Year)				X	belov	,	Othe below ice Presiden	′				
ONE TECHNOLOGY DRIVE					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) MILPITA			5035												X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)																					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/N					on 2A. Deemed Execution Date,			3. Transac Code (In 8)	tion	4. Securities Acquired (ADisposed Of (D) (Instr. 3				(A) or		ount of ities icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount		A) or D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(11150: 4)	(Instr. 4)		
Common Stock - Restricted Stock Units ⁽¹⁾				02/01/2019				М		1,775(2)		D	\$0		39,001(3)		D				
Common Stock 02/0					019				M		1,775(2))	Α	\$0		1,775		D			
Common Stock 02/01/					019				F		661(4)		D	\$106.96		1,114		D			
Common Stock 02/01/20					019				S		1,114(5)		D	\$107		0		D			
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)	Exec (ear) if any		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expirati (Month/	on D		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		f g nstr.	Secu	rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(: (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisabl		Expiration Date	Amou or Numb of Title Shares		ımber								

Explanation of Responses:

- $1. \ Each \ restricted \ stock \ unit \ ("RSU") \ represents \ a \ contingent \ right \ to \ receive \ one \ share \ of \ KLA-Tencor \ common \ stock.$
- 2. On February 1, 2017 the reporting person received a grant of RSUs for an aggregate of 7,100 shares of common stock. On February 1, 2019 25% of those RSUs vested.
- 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.
- 4. 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 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 February 1, 2019.
- 5. This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on November 13, 2018.

Remarks:

/s/ Teri Little as Attorney-in-Fact for Brian M. Trafas 02/05/2019

** Signature of Reporting Person

Date

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

- * 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).

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

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 Number.