FORM 4

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

OMB APPROVAL
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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).

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 Ty	pe Response	s)															
1. Name and Address of Reporting Person * Trafas Brian M.				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							mbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/01/2019							X Officer (give title below) Other (specify below) Executive Vice President					
(Street) MILPITAS, CA 95035				4. If Amendment, Date Original Filed(Month/Day/Year)							h/Day/Yea	6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City	· ·	(State)	(Zip)			T	able I	- Noi	n-De	rivative	Securiti	ies Acau	ired, Disp	osed of, or I	Beneficially	Owned	
(Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if		te, if	3. Transac Code (Instr. 8)		ction 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)			6. Ownership Form:	Beneficial		
						ode	V	Amoun	(A) or (D)	Price	(Instr. 3	Instr. 3 and 4)		Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)		
Common Stock - Restricted Stock Units (1)		02/01/2019			N	M		1,775 (2)	D	\$ 0	39,001	,001 (3)		D			
Common Stock 02.		02/01/2019			N	M		1,775 (2)	A	\$ 0	1,775	5		D			
Common Stock		02/01/2019]	F		661 ⁽⁴	D	\$ 106.90	1,114			D			
Common Stock 02/01/201			02/01/2019			3	S		1,114 (5)	D	\$ 107	0			D		
Reminder:	Report on a s	separate line f	or each class of secu	rities b	eneficia	lly o	wned		Pers	sons wl tained i	no resp n this f	form ar	e not requ		ormation spond unle trol numbe	ss	1474 (9-02)
			Table II -							isposed s, conver			lly Owned				
Derivative Conversion 1		3. Transactic Date (Month/Day/	on 3A. Deemed Execution Da (Year) any	4.		etion	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) US			7. T Am Und Sec			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Owners Form of Derivati Security Direct (or Indire	Beneficia Ownershi (Instr. 4)
					Code	V	(A)	(D)	Dat Exe	e ercisable	Expirat Date	ion Titl	or Number of 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	02/05/2019	
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) 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.
- 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
- (4) 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.

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.