# 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 Type Responses)														
1. Name and Address of Reporting Person * Trafas Brian M.			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner				
(Last) (C/O KLA-TENCOR CTECHNOLOGY DRI		(Middle) TION, ONE	3. Date of Earliest Transaction (Month/Day/Year) 08/03/2018					X Officer (give title below) Other (specify below)  Executive Vice President						
(Street)			4. If Amendment, Date Original Filed(Month/Day/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					
MILPITAS, CA 9503 (City)	(State)	(Zip)	Т	able I	- Nor	ı-Dei	rivative S	Securiti	es Acqui	ired, Disp	osed of, or I	Beneficially (	Owned	
(Instr. 3) Date		Transaction ate Month/Day/Year)	2A. Deemed Execution Date, it	Code (Instr. 8)			ion 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		quired l of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		ies Following n(s)	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership
				Co	ode	V	Amount	or	Price				or Indirect (I (I) (Instr. 4)	(Instr. 4)
Common Stock - Rest Stock Units (1)	tricted 08	8/03/2018		N	Л		1,251 (2)	D	\$ 0	61,115	(3)		D	
Common Stock	08	8/03/2018		N	М		1,251 (2)	A	\$ 0	1,251	1,251		D	
Common Stock	08	8/03/2018		]	F		602 <del>(4)</del>	D	\$ 119.59	649	649		D	
Common Stock - Rest Stock Units (1)	tricted 08	8/04/2018		N	Л		3,450 ( <u>5</u> )	D	\$ 0	57,665	(3)		D	
Common Stock	08	8/04/2018		N	Л		3,450 ( <u>5</u> )	A	\$ 0	4,099			D	
Common Stock	08	8/04/2018		I	F		1,711 (4)	D	\$ 119.59	2,388			D	
Reminder: Report on a sepa	arate line for e	each class of secur	rities beneficially o	wned		Pers	sons wh	o resp	orm are	not requ		ormation spond unle	ss	1474 (9-02)
			Derivative Securi (e.g., puts, calls, w							ly Owned				
Derivative Conversion Da	(Month/Day/Year) any		4.	n Number		6. D and (Mo	and Expiration Date (Month/Day/Year)  Am Unc		7. Ti Amo Und Secu (Inst	itle and bunt of erlying urities tr. 3 and	f g Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Owners Form of Derivati Security Direct ( or Indire	Ownershi (Instr. 4) D)
			Code V	(A)	(D)	Date	e rcisable	Expirat Date	ion Title	or Number of Shares				

## **Reporting Owners**

			Relationships	
Reporting Owner Name / Address	Director	10% Owner	Officer	Other

MILPITAS, CA 95035	Trafas Brian M. C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS CA 95035		Executive Vice President	
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### **Signatures**

/s/ Teri Little as Attorney-in-Fact for Brian M. Trafas	08/07/2018
**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 August 3, 2017, the Reporting Person was granted an RSU for 5,003 shares of KLA-Tencor Common Stock. On August 3, 2018, 25% of those shares 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 August 3, 2018.
- (5) On August 4, 2016, the Reporting Person was granted an RSU for 13,800 shares of KLA-Tencor Common Stock. On August 4, 2018, 25% of those shares vested.

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.