FORM 4

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

OMB APPROVAL
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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)											
Name and Address of Reporting Person* Lorig Brian		2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director10% Owner			
(Last) (First) (Middle) ONE TECHNOLOGY DRIVE		3. Date of Earliest Transaction (Month/Day/Year) 08/03/2018						X Officer (give title below) Other (specify below) SVP			
(Street) MILPITAS, CA 95035		4. If Amendment, Date Original Filed(Month/Day/Year)					ar)	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)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Ownership Form:	7. Nature of Indirect Beneficial Ownership
			Code	V	Amount	(A) or (D)	Price			or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock - Restricted Stock Units (1)	08/03/2018		М		938 (2)	D	\$ 0	27,040 ⁽³⁾		D	
Common Stock	08/03/2018		M		938 (2)	A	\$ 0	1,504		D	
Common Stock	08/03/2018		F		325 (4)	D	\$ 119.59	1,179		D	
Common Stock - Restricted Stock Units (1)	08/04/2018		M		1,550 (5)	D	\$ 0	25,490 ⁽³⁾		D	
Common Stock	08/04/2018		M		1,550 (5)	A	\$ 0	2,729		D	
Common Stock	08/04/2018		F		536 ⁽⁴⁾	D	\$ 119.59	2,193		D	
Common Stock - Restricted Stock Units (1)	08/04/2018		M		1,550 (6)	D	\$ 0	23,940 (3)		D	
Common Stock	08/04/2018		M		1,550 (6)	A	\$ 0	3,743		D	
Common Stock	08/04/2018		F		536 (4)	D	\$ 119.59	3,207		D	
Reminder: Report on a separate line	for each class of secu	rities beneficially ov	wned direc	ly or	indirectly	y					
				con	tained ir	n this i	form are	the collection of ir not required to re ntly valid OMB co	espond unle	ess	1474 (9-02)
		Derivative Securiti (e.g., puts, calls, wa						ly Owned			
1. Title of Derivative Conversion Date Security Or Exercise (Month/Day/Year) 3A. Deemed Execution Date any		4. Transaction Code Year) (Instr. 8)	5.	6. Date Exercisable and Expiration Date (Month/Day/Year) 7. T Am Und Sec			7. Ti Amo Undo Secu (Inst	itle and ount of lerlying urities tr. 3 and Security (Instr. 5) 8. Price of Derivative Securities Securities Beneficially Owned Following Reported Transaction (Instr. 4)		Owners: Form of Derivati Security Direct (1) or Indire	Beneficia Ownershi (Instr. 4) D)
		Code V	(A) (D)	Dat Exe		Expirat Date	Title	Amount or Number of Shares			

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
Lorig Brian ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			SVP			

Signatures

/s/ Teri A. Little, attorney-in-fact for Brian Lorig	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 3,752 shares of KLA-Tencor Common Stock. On August 3, 2018, 25% of those shares 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.
- 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 stockusedforpurposes of calculating the number of shares to be withheld was the closing price of KLA-Tencor common stock as reported on August
- (5) On August 4, 2016, the Reporting Person was granted an RSU for 6,200 shares of KLA-Tencor Common Stock. On August 4, 2018, 25% of those shares vested.
- (6) On August 4, 2016, the Reporting Person was granted an RSU for 3,100 shares of KLA-Tencor Common Stock. On August 4, 2018, 50% 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.