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

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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

pe Response	3)														
1. Name and Address of Reporting Person* Little Teri A.				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) (First) (Middle) ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 05/14/2019						X Officer (give title below) Other (specify below) EVP, CLO and Secretary					
(Street) MILPITAS, CA 95035				4. If Amendment, Date Original Filed(Month/Day/Year)						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)				Table I - Non-Derivative Securities Acqu						ired, Disposed of, or Beneficially Owned					
(Instr. 3) Date		2. Transaction Date (Month/Day/Year	Execu	Execution Date, if any		Code (Instr. 8)		on 4. Securities Acquired (A or Disposed of (D) (Instr. 3, 4 and 5)			Beneficially Owned Following Reported Transaction(s)			Ownership o Form:	Beneficial
			(Mont	th/Day/Year		Code		Amount	(A) or (D)	Price	(Instr. 3	or In (I)		or Indirect	Ownership (Instr. 4)
Stock		05/14/2019			S	,		1,500	111		5,517		D		
n Stock - R nits (1)	estricted										21,934	. (2)		D	
Report on a s	separate line		- Deriv	rative Secur	ities A	equir	Per cor the	rsons whatained in form dis	no responding this for splays a	orm are a curre eneficial	not requesting ntly valid	uired to res	spond unle	ss	1474 (9-02)
I ₂	2	24 D				ts, op					:41	0 D.:	0 Nh	-6 10	11 N-6
	Date	Execution 1 any	Date, if	Transaction Number of		and (M	and Expiration Date (Month/Day/Year) Art Ur Se			ount of derlying urities tr. 3 and	Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported	Owners Form of Derivati Security Direct (or Indirect)	Beneficia Ownersh (Instr. 4)	
											Amount				
	chnolo AS, CA 95 Security Security 2. Conversion or Exercise Price of Derivative	ri A. (First) CHNOLOGY DRIV (Street) AS, CA 95035 (State) Gecurity Security 2. Conversion or Exercise Price of Derivative (First) (First) (First) (State) (Street) AS, CA 95035 (State) (State) (State) (State) (State) (State) (State) (State) (Authorized and State) (State) (Month/Day	ri A. (First) (Middle) CHNOLOGY DRIVE (Street) AS, CA 95035 (State) (Zip) Gecurity 2. Transaction Date (Month/Day/Year) a Stock - Restricted anits (I) Report on a separate line for each class of second and separate line for each class of second and separate line for each class of second any (Month/Day/Year) Table II 2. Conversion or Exercise Price of Derivative (Month/Day/Year) Date (Month/Day/Year) (Month/Day/Year)	ri A. (First) (Middle) 3. D (CHNOLOGY DRIVE 05/ (Street) 4. If AS, CA 95035 (State) (Zip) Gecurity 2. Transaction Date (Month/Day/Year) a Stock 05/14/2019 a Stock - Restricted ants (II) Report on a separate line for each class of securities (e.g., 1) Table II - Deriv (e.g., 1) Conversion or Exercise Price of Derivative (Month/Day/Year) AS. Deemed Execution Date, if any (Month/Day/Year)	ri A. (First) (CHNOLOGY DRIVE (Street) (Street) (AS, CA 95035 (State) (Zip) (State) (Zip) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (AS, CA 95035 (Zip) (AS Deemed Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (AS Deemed Execution Date, if any (Month/Day/Year) (Month/Day/Year) (AS Deemed Execution Date, if Code (Month/Day/Year) (AS Deemed Execution Date, if Code (Instr. 8)	Table II - Derivative Securities beneficially owned. Conversion or Exercise of Derivative Security Code of Obspecies of Observative Security Code (Instr. 8) Code of Observative Security Code of Observative Security	Table II - Derivative Securities Acquire (e.g., puts, calls, warrants, op Or (Derivative Security Secu	ri A. CHNOLOGY DRIVE Street Stre	ri A. KLA TENCOR CORP [KLAC]	CHNOLOGY DRIVE Street A. KLA TENCOR CORP [KLAC]	Stock O5/14/2019 O5/	Stock O5/14/2019 O5/14/2019 Stock O5/14/2	Characteristics Characteri	Check all applic Check all a	Check all applicable Other (specify) Other

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Little Teri A. ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			EVP, CLO and Secretary					

Signatures

/s/ Teri A. Little	05/15/2019
**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) 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.