# 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 Kesponse	S)						_								
Name and Address of Reporting Person *  Little Teri A.			2. Issuer Name <b>and</b> Ticker or Trading Symbol KLA TENCOR CORP [KLAC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner					
ONE TECHNOLOGY DRIVE (Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/03/2017						X Officer (give title below) Other (specify below)  SVP, GC and Secretary							
				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						
(City	AS, CA 95	(State)	(Zip)		Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1.Title of Security 2. Transaction (Instr. 3) Date			2A. Deemed Execution Da	te, if	3. Transac Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D)		quired l of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)			6. 7 Ownership o Form: E	Beneficial		
			(Month/Day/Year)		Code	e V	7	Amount	(A) or (D)	Price	(Instr. 3	(Instr. 3 and 4)		Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
Common	Stock		01/03/2017			J	V	7	81 <u>(1)</u>	A	\$ 61.625	9,135			D	
Common	Stock		07/03/2017			J	V	7	314 (1)	A	\$ 67.499	9,449			D	
Common Stock - Restricted Stock Unit (2) 08/03/2017				A			5,003	A	\$ 0	32,523	32,523 (3)		D			
Reminder:	Report on a s	separate line f	or each class of secu				Pe	ers ont ie f	sons wh tained ir form dis	o resp this t plays	form are a curre	not requesting ntly valid	OMB con	formation spond unle trol numbe	ess	1474 (9-02)
		1		Derivative Se (e.g., puts, cal		arrants	s, optio	ons	, convert	ible se	curities)		•	1	_	
Derivative Conversion Date		3. Transactic Date (Month/Day.	Year) Execution Da	4. Transac Code Year) (Instr. 8		Number and		and Expiration Date Month/Day/Year)  Ar Ur Se		Ame Und Secu (Ins	itle and ount of lerlying urities tr. 3 and	Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Owners Form o  y Derivat Security Direct ( or Indir	Benefici Ownersh (Instr. 4)	
				Code	V	(A)		Date Exer	e rcisable	Expirat Date	tion Title	Amount or Number of Shares				

### **Reporting Owners**

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

## **Signatures**

Teri A. Little	08/04/2017

**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) Represents shares acquired under the KLA-Tencor Corporation Amended and Restated 1997 Employee Stock Purchase Plan.
- (2) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- 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.