FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
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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 * 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					
ONE TECHNOLOGY DRIVE (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 11/11/2016							X Officer (give title below) Other (specify below) SVP, GC and Secretary						
MILPITA	AS, CA 95	(Street)		4. If Amend	lment,	Date Or	riginal	Filed(Mor	nth/Da	ay/Year)		_X_ Form fil	ed by One Repo	Group Filing orting Person on One Reporting	•	icable I	Line)
(City) (State) (Zip)				Table I - Non-Derivative Securities Acqu						ired, Disposed of, or Beneficially Owned							
(Instr. 3) Date			2. Transaction Date (Month/Day/Year)		Date, if	(Instr. 8)		(A) o	4. Securities Acquire (A) or Disposed of (Instr. 3, 4 and 5)		of (D)	Beneficial Reported	nt of Securities ally Owned Following Transaction(s)		Form:	ip of Be	7. Nature of Indirect Beneficial
				(Month/Day/Year)		Cod	le \	/ Amo	unt	(A) or (D)	Price	(Instr. 3 a	anu +)		Direct (I or Indire (I) (Instr. 4)	(Instr. 4)	
Common Stock - Restricted Stock Unit (1)		11/11/2016			A		10,0	37	A	\$ 0	27,520			D			
Common Stock												9,054			D		
				Derivative So			the	ntained form d Disposed	in t ispl l of,	his for lays a o	m are curre eficial	not requesting ntly valid	OMB con	spond unle trol numbe	ss	.C 14	74 (9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Y	3A. Deemed Execution Da any	4. Transaction Code Year) (Instr. 8)		5.		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)				Owner Form Deriv Secur Direct or Ind	rative rity: et (D) direct	Beneficial Ownership (Instr. 4)	
				Code	V	(A) (I	Da Ex	ite ercisable		apiration ate	1 Title	Amount or Number of Shares					
Repor	ting O	wners															

	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	11/11/2016
***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.
- On November 11, 2016, the Reporting Person was granted RSUs for 10,037 shares of KLA-Tencor common stock which vest 25% annually beginning November 11, 2017, subject to continued service on each vesting date.

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.