# 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 Response	s)														
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) 11/04/2016						X Officer (give title below) Other (specify below)  SVP, GC 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 Acquired, Disposed of, or Benefic				Beneficially	cially Owned							
1.Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Year)				(Instr. 8)		tion	4. Securities Acquire (A) or Disposed of (I (Instr. 3, 4 and 5)		of (D)	D) Beneficially Owned Following Reported Transaction(s)			Ownership of Form:	Beneficial		
				(Month/Day	y ear		ode	V	Amoun	(A) or t (D)	Price				Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common	Stock		11/04/2016			N	M		2,500 (1)	A	\$ 0	9,994			D	
Common	Stock		11/04/2016			]	F		940 (2	D	\$ 74.52	9,054			D	
Common Stock Un	Stock - R	estricted										17,483	<u>(4)</u>		D	
Reminder:	Report on a s	separate line fo	r each class of secur	ities beneficia			l d t	Pers cont the f	ons wh ained ir orm dis	o respo this fo plays a	orm are	e not requ ntly valid	OMB con	formation spond unle trol numbe	ess	1474 (9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security 3. Transactic (Month/Day/		3A. Deemed Execution Data	e.g., puts, calls, warrants, opti 4. 5. 0 te, if Transaction Number		ons, convertible securiti  b. Date Exercisable and Expiration Date (Month/Day/Year)		7. T Ame Und Seco	Citle and ount of lerlying urities tr. 3 and S. Price of Derivative Security (Instr. 5)		Derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownersh Form of Derivati Security Direct (I or Indire	Beneficia Ownersh (Instr. 4)			
				Code	V	(A)		Date Exer		Expirati Date	on Title	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	11/07/2016

**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) On November 4, 2015, the Reporting Person received a grant of restricted stock units ("RSUs") covering 10,000 shares of KLA-Tencor common stock. On November 4, 2016, the Reporting Person vested in 25% of such RSUs.
  - Pursuant to the terms of the November 4, 2015 RSU grant, 940 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax
- (2) withholding. The fair market value of 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 the NASDAQ Stock Market on November 4, 2016.
- (3) 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.