## FORM 4

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

OMB APPROVAL					
OMB Number:	3235-0	287			
Estimated average	burden				
nours per response	e	0.5			

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 *- RANGO ROBERT A.			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]					5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner							
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE			3. Date of Earliest Transaction (Month/Day/Year) 11/02/2016						Office	r (give title belo	ow)	Other (specify b	elow)		
(Street)			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							
MILPITAS, CA 95035 (City) (State) (Zip)			(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1.Title of S (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date	if Co	Transa		4. Secu (A) or 1 (D)	rities Acq Disposed (	uired of	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		es Following	6. 7. Nature Ownership Form: Beneficial Direct (D) or Indirect (Instr. 4)	
						Code	V	Amoun	(A) or (D)	Price				(I) (Instr. 4)	
Common Stock Un	Stock - R	estricted	11/02/2016			A		2,141 (2)	A	\$ 0	4,535		D		
Common	Stock										1,969			D	
Keimidel.	Report on a s	separate fine for		Derivative Secur	ities A	cquire	Personta conta the fo	ons wh ained ir orm dis	o respon this for plays a	m are curre eficial	e not reqเ ntly valid		formation spond unle trol numbe	ss	1474 (9-02)
1. Title of	2	3. Transaction	,	e.g., puts, calls,	warra 5.	nts, opt		convert te Exerc		T	itle and	8 Price of	9. Number	of 10.	11. Natur
Derivative Security	Conversion Date		Date (Month/Day/Year) Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Instr. 8)		Num of Deri Secu Acq (A) Disp of (I (Ins	Number and		d Expiration Date donth/Day/Year)		Ame Und Seco	ount of elerlying urities tr. 3 and	t of ving es and Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Owners Form of Derivati Security Direct (1 or Indire	hip of Indired Beneficia Ownersh (Instr. 4)
				Code V	(A)	(D)	Date Exerc		Expiratior Date	n Title	Amount or Number of Shares				

### **Reporting Owners**

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
RANGO ROBERT A. C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	X					

### **Signatures**

Teri A. Little as Attorney-In-Fact for Robert A. Rango	11/03/2016
**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.
  - Represents a grant of RSUs that, pursuant to KLA-Tencor's outside director compensation program, was automatically granted to the Reporting Person on the date of KLA-
- (2) Tencor's annual meeting of stockholders with respect to the Reporting Person's service on the Board of Directors for the upcoming year. The RSUs will fully vest one year from date of grant and will be deliverable on such 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.