

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

OMB APPROVAL					
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nours per respons	se 0.5				

INITIAL STATEMENT OF 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 Type Response	es)											
1. Name and Address of Reporting Person * RANGO ROBERT A.			2. Date of Event Requiring Statement (Month/Day/Year) 11/05/2014		3. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							
C/O KLA-TENCO		First) (Middle)			X Director Officer (give title			all applicable) all opplicable all opplicable all opplicable all opplicable begin{subarray}{l} 10% Owner begin{subarray}{l} Other (spec	Filed(Mon	5. If Amendment, Date Original Filed(Month/Day/Year)		
MILPITAS, CA 93	(Street) 5035						below)	below)	Applicable X_ Form f	6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting PersonForm filed by More than One Reporting Person		
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Beneficially Owned									
1. Title of Security (Instr. 4)	Instr. 4) Benefit				eneficially Owned Formula (I			4. Nature of Indirect Beneficial Ownership (Instr. 5)				
Reminder: Report on a	Persons v unless the	who respond e form displa	to the cays a cur	ollection rently va	of info	ormatio IB cont	on contained in t		·			
1. Title of Derivative Security (Instr. 4)		an	2. Date Exercisable and Expiration Date Month/Day/Year)		3. Title and A Securities Und Security (Instr. 4)		Amount of aderlying Derivativ	Price of Derivative	5. Ownership Form of Derivative Security: Direct	6. Nature of Indirect Beneficial Ownership (Instr. 5)		
			ite ercisable	Expiration Date	Title Amoun Shares		nt or Number of	Security	(D) or Indirect (I) (Instr. 5)			

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

Brian M. Martin as Attorney-In-Fact for Robert A. Rango	11/05/2014	
**Signature of Reporting Person	Date	

Explanation of Responses:

No securities are beneficially owned

- * If the form is filed by more than one reporting person, see Instruction 5(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).

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.

Limited Power of Attorney - Securities Law Compliance

This statement confirms that the undersigned, as an officer, director or beneficial owner of more than 10% of any class of any equity security of KLA-Tencor Corporation (the "Corporation"), hereby appoints Brian Martin (in his role as corporate secretary) and Teri Little (in her role as associate general counsel), and each of them, the undersigned's true and lawful attorney-in-fact and agent to:

- 1. complete and execute Forms 3, 4 and 5 and other forms (including any amendments thereto) as such attorney-in-fact shall in his discretion determine to be required or advisable pursuant to Section 16 of the Securities Exchange Act of 1934 (as amended) and the rules and regulations promulgated thereunder, or any successor laws and regulations, as a consequence of the undersigned's ownership, acquisition or disposition of securities of the Corporation; and
- 2. to do all acts necessary in order to file such forms with the Securities and Exchange Commission, any securities exchange or national association, that the Corporation and such other person or agency as the attorney-in-fact shall deem appropriate.

The undersigned hereby ratifies and confirms all that said attorneys-in-fact and agents shall do or cause to be done by virtue hereof. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Corporation assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934 (as amended). This Limited Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's ownership of and transactions in securities of the Corporation, unless earlier revoked by the undersigned in a signed writing delivered to the Corporation and the foregoing attorneys-in-fact.

This Limited Power of Attorney is executed at Milpitas, California as of the date set forth below.

Signature: /s/ Robert A. Rango Print Name: Robert A. Rango Dated: October 16, 2014

Witness:

Signature: /s/ Cynthia Bock Print Name: Cynthia Bock Dated: October 16, 2014