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

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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

					Relation	ships								
Repor	ting O	wners												
				Code V	(A) (D)	Date Exer	e cisable	Expiration Date	¹ Title	Amount or Number of Shares				
(IIIsti. 3)	Derivative Security		(Monal Day)		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		(Ii			r. 3 and	(msu. 3)	Owned Following Reported Transaction(s) (Instr. 4)	Security Direct (or Indir	(Instr. 4)
1. Title of Derivative Security (Instr. 3)	2. 3. Transaction Conversion Date or Exercise Price of (Month/Day/Ye		n 3A. Deemed Execution Da any	te, if Transaction Code	5. 6. Number an		6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Ar		7. Ti Amo Undo	itle and 8. Price of		9. Number of Derivative Securities Beneficially	Owners Form o	f Beneficia
				Derivative Securities, puts, calls, wa						ly Owned				
Reminder:	Report on a se	eparate line fo	or each class of secur	ities beneficially ov		Pers	ons wh	no respor	m are	not requ		formation spond unleader	ss	1474 (9-02)
Stock Un										30,425	(4)		D	
		07/02/2014		S ⁽¹⁾		260 (2	D 5	\$ 72.78	297			D		
(Instr. 3)		Date (Month/Day/Year)	Execution Date, if	Code (Instr. 8)	V	(A) or I	Disposed of 3, 4 and 5) (A) or	of (D)	D) Beneficially Owne Reported Transact (Instr. 3 and 4)		lly Owned Following Transaction(s)		of Indirect Beneficial Ownership (Instr. 4)	
(City) (State) (Zip) 1.Title of Security 2. Transaction			Table I - Non-Derivative Securities Acqu 2A. Deemed 3. Transaction 4. Securities Acquired						1. Amount of Securities 6. 7. Nature					
MILPITAS, CA 95035			The monthlene, Date Offshar I neglytonius Day (1841)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person					
C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE (Street)				Date of Earnest Transaction (Month/Day/Year) 07/02/2014 4. If Amendment, Date Original Filed(Month/Day/Year)						6 Individ		Group Filing		ble Line)
Kirloskar Virendra A (Last) (First) (Middle)			KLA TENCOR CORP [KLAC] 3. Date of Earliest Transaction (Month/Day/Year)						(Check all applicable) Director 10% Owner X Officer (give title below) Other (specify below)			below)		
(Print or Type Responses) 1. Name and Address of Reporting Person*				2. Issuer Name and Ticker or Trading Symbol						5. Relationship of Reporting Person(s) to Issuer				

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Kirloskar Virendra A C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			SVP & Chief Accounting Officer					

Signatures

Brian M. Martin as Attorney-in-Fact for Virendra A. Kirloskar	07/07/2014
**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) This sale is effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on February 28, 2014.
- (2) These 260 shares of KLA-Tencor common stock were acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on June 30, 2014.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) 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 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.