FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
hours per response... 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 Type Responses) 1. Name and Address of Reporting Person * Kirloskar Virendra A				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 07/03/2017							Director10% Owner X Officer (give title below) Other (specify below) SVP & Chief Accounting Officer				
(Street) MILPITAS, CA 95035				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				
(City) (State) (Zip)				Table I - Non-Derivative Securities Acqu							ired, Disposed of, or Beneficially Owned				
(Instr. 3) Date		2. Transaction Date (Month/Day/Year)		if Co	Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)			Ownership of Form:	Beneficial	
			(Month/Day/Year)		Code	V	Amount	(A) or (D)	Price	(Instr. 3	and 4)		Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
Common Stock		07/03/2017			J	V	314 (1)	A	\$ 67.499	611		D			
Common Stock		07/05/2017			S		314 (2)	D	\$ 91.74	297		D			
Common Stock - Restricted Stock Units (3)										24,586 ⁽⁴⁾		D			
Reminder:	Report on a s	separate line		Derivative Secu	rities	Acqui	Per cor the	rsons whatained in form dis	no resp n this i splays of, or B	form are a curre eneficial	not requesting ntly valid	ction of inf uired to res OMB conf	spond unle	ess	1474 (9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transacti Date (Month/Day	on 3A. Deemed Execution Da any	Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Instr. 8) Execution Date, if Code (Instr. 8) Code (Instr. 8) Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) Date		Expiration Date Expiration Date Title		Amount or Number of Shares	Security (Instr. 5)	9. Number Derivative Securities Beneficiall Owned Following Reported Transaction (Instr. 4)	Owners Form o Derivat Security Direct (or Indir	Beneficia Ownersh (Instr. 4)			

Reporting Owners

	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

Teri Little as Attorney-in-Fact for Virendra A. Kirloskar	07/06/2017	
**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) Represents shares acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on July 3, 2017.
- (2) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on November 25, 2016.
- (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 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.