## FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
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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 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)  Director 10% Owner						
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/01/2017							X Officer (give title below) Other (specify below)  SVP & Chief Accounting Officer						
(Street) MILPITAS, CA 95035				4. Ii	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 Acqu							lired, Disposed of, or Beneficially Owned						
1.Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea	Exe ar) any			(Instr. 8)		(A) or Disposed of (D (Instr. 3, 4 and 5)			of (D)	Beneficially Owned Following Reported Transaction(s)			Ownership Form:	ip of Be	Beneficial
				(Mo	onth/Day/	Y ear)	Code	e	V A	Amount	(A) or (D)	Price		(Instr. 3 and 4)		Direct (I or Indire (I) (Instr. 4)	ct (Ir	wnership nstr. 4)
Common	Stock		02/01/2017				S		1	102 (1)	D	\$ 85.54	297 (2)			D		
Common Stock Un	Stock - R its (3)	estricted											24,586			D		
		opulue me r	r each class of se	- Deriv	vative Sec	uriti	ies Acqu	Pe cc th	ersoi ontai ne foi , Disp	ns who	o respo this fo plays a f, or Ber	rm ar curre	e not requently valid	OMB con	formation spond unle trol numbe	ess	EC 147	74 (9-02)
Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transactio Date (Month/Day/	Execution any	d Date, if	4. Transaction Code Year) (Instr. 8)		5.		and Expiration Date (Month/Day/Year)		7. T Am Un Sec	Fitle and ount of derlying urities str. 3 and	8. Price of Derivative Security (Instr. 5)	9. Number o Derivative Securities Beneficially Owned Following Reported Transaction( (Instr. 4)	Own- Form Deriv Secu- Direct or In-	vative rity: et (D) direct	Beneficia Ownershi (Instr. 4)	
							(A) (I	E	Date Exerci		Expiratio Date	on Tit	Amount or e Number of Shares					
Repor	ting O	wners																

	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	02/02/2017
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) Sold under a Rule 10b5-1 sales plan adopted as of November 25, 2016.
- (2) Includes 102 shares acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on December 30, 2016.
  - Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock. Does not include performance-based RSUs held by the
- (3) 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.