FORM 4

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

OMB APPROVAL
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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 Ty	pe Response	s)		_											
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) 10/25/2016					X Officer (give title below) Other (specify below) SVP & Chief Accounting Officer					
MII DIT	AS CA 05	(Street)		4. If Ar	mendment,	Date Or	riginal	Filed(Mont	h/Day/Yea	ur)	_X_ Form fil	ed by One Repo		(Check Applicat	ole Line)
(City	AS, CA 95	(State)	(Zip)		Ta	able I - I	Non-D	erivative	Securiti	ies Acqu	lired, Dispe	osed of, or l	Beneficially	Owned	
(Instr. 3) Date (Month/Day/Year)			2A. Deemed Execution Date, if any		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 a	(Instr. 3 and 4)			Ownership (Instr. 4)	
Common	Stock		10/25/2016			S		8,006	D	\$ 74.512 (1)	2 297			D	
Common Stock Un	Stock - R	estricted									19,567			D	
Reminder:	Report on a s	separate line f	or each class of secu		•		Pe co the	rsons wh ntained i e form dis	no resp n this f splays	form ar a curre	e not requ		ormation spond unle trol numbe	ss	1474 (9-02)
	_			(e.g., put	ts, calls, w	arrants,	optio	ns, conver	tible sec	curities)	<u> </u>				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		Year) Execution Da	Year) Code (Instr. 8)		Number a		Date Exercisable and Expiration Date Month/Day/Year)		Am Und Sec	Fitle and count of derlying curities str. 3 and	Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownersl Form of Derivati Security Direct (I or Indire	Beneficial Ownership (Instr. 4)
				Code	Code V	(A) (I	Ex	ate kercisable	Expirat Date	ion Titl	Amount or 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	10/26/2016

**Signature of Reporting Person	Date
2-8	

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 the weighted average sales price for the shares. The sales prices ranged from \$74.50 to \$74.54. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock. Does not include performance-based RSUs, if any, held (2) 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.