FORM 4

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

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average	burden						
nours per response	e 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 Ty	pe Response	s)															
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) 08/05/2015								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) Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)		(State)	(Zi	p)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned												
1.Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Y		Execu- any	A. Deemed xecution Date, if ny Month/Day/Year)		Code (Instr. 8)		(A) or Disposed of (Instr. 3, 4 and 5)			Benefic Reporte	cially Owned led Transaction	t of Securities lly Owned Following Transaction(s)		7. Nature of Indirect Beneficial
					(Month/Day		cai)	Code	V	Amour	(A) or (D)	Price	(Instr. 3 and 4)			Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common	Stock		08/05/2	015				S ⁽¹⁾		2,246	D	\$ 52.24	297			D	
Common Stock Un	Stock - R	estricted											23,412	2 (3)		D	
			Т	`able II - I	Derivat e.g., pu	tive Secu	ıriti , wa	ies Acquire	d, D	isposed	of, or Be	neficia	lly Owne				
Derivative	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/	n 3A. Exe Year) any	Deemed cution Da	e.g., pu te, if T	ts, calls, ransactic	on on	ies Acquires arrants, op 5. Number of Derivative Securities Acquired	the f	form di	of, or Bertible securcisable on Date	neficia urities) 7. T Am Und Sec	ently vali		9. Number Derivative Securities Beneficiall Owned Following	of 10. Owner: Form of Derivation Securit Direct	Ownersh (Instr. 4)
								(A) or Disposed of (D) (Instr. 3, 4, and 5)							Reported Transaction((Instr. 4)	or India (I) (Instr. 4	
						Code	v	(A) (D)	Date	e rcisable	Expiration Date	On Titl	Amour or e Numbe of Shares	er			
Repor	ting O	wners															
					1	Relationships											
Reporting Owner Name / Address Direct		Director	10% Owner Officer							Other							

SVP & Chief Accounting Officer

Signatures

Kirloskar Virendra A

C/O KLA-TENCOR CORPORATION

ONE TECHNOLOGY DRIVE MILPITAS, CA 95035

Brian M. Martin as Attorney-in-Fact for Virendra A. Kirloskar	08/07/2015
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 was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on March 11, 2015.
- (2) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (3) 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.