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 Ty	pe Responses	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) 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) 08/07/2015							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)			Ta	able I - Nor	ı-Der	ivative S	Securitie	s Acqu	ired, Dis	posed of, or l	Beneficially	Owned	
1.Title of Security (Instr. 3)		2. Transact Date (Month/Da	Day/Year) Excap	Execution any	A. Deemed Execution Date, if ny Month/Day/Year)	Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D (Instr. 3, 4 and 5)		of (D)			Following	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership	
				(Nional Bay) Teal		Code	V	Amoun	(A) or t (D)	Price	(also 2 and 1)			or Indirect (I) (Instr. 4)	(Instr. 4)	
Common	Stock		08/05/20	15			S ⁽¹⁾		2,246	D	\$ 52.24	297			D	
Common Stock - Restricted Stock Units (2) (3)											19,012 (4)			D		
			Ta				ies Acquire	ed, D	isposed (of, or Be	neficial	·		trol numbe	r.	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Y	3A. D Execu	Deemed ution Dat		saction	ies Acquires arrants, op 5. Number of Derivative Securities Acquired (A) or	ed, Dottions 6. Dottional	isposed (of, or Bentible secucisable on Date	7. T Amo Und	·	8. Price of	9. Number Derivative Securities Beneficially Owned Following Reported	of 10. Owners Form of Derivat Security Direct (or Indir	Ownershi (Instr. 4)
							Disposed of (D) (Instr. 3, 4, and 5)							Transaction(s (Instr. 4)	(Instr. 4	
					Cod	le V	(A) (D)	Date	e rcisable	Expiration Date	On Title	Amour or Number of Shares	er			
Repor	ting O	wners														
					Relationships											
Reporting Owner Name / Address			Director	or 000 Officer 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	08/10/2015
	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) 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.