FORM 4	4
--------	---

Check this box if no
longer subject to
Section 16. Form 4 or
Form 5 obligations
may continue. See
Instruction 1(b).

(Print or Type Perponses)

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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

### 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

1. Name and Address of Reporting Po Kirloskar Virendra A	2. Issuer Name <b>ar</b> KLA TENCOR			0,	ıbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) C/O KLA-TENCOR CORPO TECHNOLOGY DRIVE	3. Date of Earliest 7 08/04/2017	Transaction	n (Mo	onth/Day/	Year)	X_Officer (give title below) Other (specify below) SVP & Chief Accounting Officer				
(Street) MILPITAS, CA 95035	4. If Amendment, I	Date Origin	nal Fi	led(Month/	Day/Yea	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)	Tal	ble I - Non	ired, Disposed of, or Beneficially	Beneficially Owned					
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		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)	6. Ownership 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	08/04/2017		М		1,725 (1)	А	\$ 0	2,022	D	
Common Stock	08/04/2017		F		649 <mark>(2)</mark>	D	\$ 88.83	1,373	D	
Common Stock	08/06/2017		М		8,643 ( <u>3</u> )	А	\$ 0	10,016	D	
Common Stock	08/06/2017		F		3,412 ( <u>4</u> )	D	\$ 88.83	6,604	D	
Common Stock	08/07/2017		М		912 <u>(5)</u>	А	\$ 0	7,516	D	
Common Stock	08/07/2017		F		476 <mark>(6)</mark>	D	\$ 92.01	7,040	D	
Common Stock	08/07/2017		S		6,307 (7)	D	\$ 89.15	733	D	
Common Stock - Restricted Stock Units <sup>(8)</sup>								15,808 <sup>(9)</sup>	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

owned unce	buy of indirectly.	
	Persons who respond to the collection of information	SEC 1474 (9-02)
	contained in this form are not required to respond unless	
	the form displays a currently valid OMB control number.	

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

 (a.g., puts, calls, warrants, ontions, convertible securities)

	(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.		5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	on	Numł	ber	and Expirati	on Date	Amou	unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code		of		(Month/Day	/Year)	Unde	rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	ative			Secur	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Securities (I		(Instr. 3 and			Owned	Security:	(Instr. 4)		
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) o	ŗ						Reported	or Indirect	
						Dispo	sed						Transaction(s)	(I)	
						of (D)	)						(Instr. 4)	(Instr. 4)	
					(Instr. 3,										
					4, and 5)										
											Amount				
								Date	Expiration		or				
								Exercisable		Title	Number				
								Excicisable	Date		of				
				Code	V	(A)	(D)				Shares				

## **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
 08/08/2017

 -\*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) On August 4, 2016, the Reporting Person received a grant of RSUs covering 6,900 shares of KLA-Tencor common stock. On August 4, 2017, the Reporting Person vested in 25% of such RSUs.
- (2) Pursuant to such terms of the August 4, 2016 RSU grant, 649 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding.
- On August 6, 2013, August 6, 2013, August 6, 2013 and August 6, 2015, the Reporting Person received a grant of RSUs or PRSUs covering 4,050 (RSU), 4,050 (PRSU),
   (3) 8,000 (RSU) and 4,400 (RSU) shares of KLA-Tencor common stock, respectively. On August 6, 2017, the Reporting Person vested in 25%, 50%, 50% and 25% of such RSUs and PRSUs, respectively.
- (4) Pursuant to such terms of the August 6, 2013, August 6, 2013, August 6, 2013 and August 6, 2015 grants, 3,412 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding.
- (5) On August 7, 2014, the Reporting Person received a grant of RSUs covering 3,650 shares of KLA-Tencor common stock. On August 7, 2017, the Reporting Person vested in 25% of such RSUs.
- (6) Pursuant to such terms of the August 7, 2014 RSU grant, 476 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding.
- (7) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on November 25, 2016.
- (8) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (9) 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.