

Kirloskar Virendra A  
 Form 4  
 August 05, 2009

**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, Section 17(a) of the Public Utility Holding Company Act of 1935 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)

(Last) (First) (Middle)  
 C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 08/03/2009

\_\_\_ Director \_\_\_ 10% Owner  
 \_\_\_X\_\_\_ Officer (give title below) \_\_\_ Other (specify below)  
 Chief Accounting Officer

MILPITAS, CA 95035

4. If Amendment, Date Original Filed(Month/Day/Year)

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)

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction 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) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)	
				(A) or (D)	Price			
				Code	V	Amount		
Common Stock - Restricted Stock Units <u>(1)</u>	08/03/2009		A	5,900 <u>(2)</u>	A	\$ 0	38,000 <u>(3)</u>	D
Common Stock - Restricted Stock Units <u>(1)</u>	08/03/2009		A	10,400 <u>(2)</u>	A	\$ 0	48,400 <u>(3)</u>	D
							4,447 <u>(4)</u>	D

Common  
Stock

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

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**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 3)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Kirloskar Virendra A C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			Chief Accounting Officer	

## Signatures

Brian M. Martin as Attorney-in-Fact for Virendra A. Kirloskar  
08/05/2009

\_\_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) Each restricted stock unit represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) Represents a grant of restricted stock units subject only to service-vesting requirements. Mr. Kirloskar will vest in fifty percent (50%) of the restricted stock units upon his completion of two years of service with KLA-Tencor measured from the grant date

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(August 3, 2009) and will vest in the remaining fifty percent (50%) upon his completion of an additional two years of service thereafter. The shares of common stock will be issued as the restricted stock units vest.

- (3) Does not include performance-based restricted stock units, 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 Form 4 within two business days of the date such assessment is made.
- (4) Includes 10 shares acquired under the KLA-Tencor Employee Stock Purchase Plan ("ESPP") on December 31, 2008 and 706 shares acquired under the ESPP on June 30, 2009.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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