

Kirloskar Virendra A  
Form 4  
December 08, 2011

**FORM 4**

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

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

## OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Kirloskar Virendra A

(Last) (First) (Middle)

C/O KLA-TENCOR  
CORPORATION, ONE  
TECHNOLOGY DRIVE

(Street)

MILPITAS, CA 95035

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol  
KLA TENCOR CORP [KLAC]

3. Date of Earliest Transaction  
(Month/Day/Year)  
12/06/2011

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

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(Check  
Applicable Line)  
\_X\_ Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting  
Person

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

| 1. Title of<br>Security<br>(Instr. 3)                            | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3.<br>Transaction<br>Code<br>(Instr. 8) | 4. Securities Acquired<br>(A) or Disposed of (D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form: Direct<br>(D) or<br>Indirect (I)<br>(Instr. 4) | 7. Nature of<br>Ownership<br>Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Common<br>Stock                                                  | 12/06/2011                              |                                                             | M                                       | (A)<br>or<br>(D)<br>V Amount Price<br>2,500 \$<br>39.35                 | 15,963                                                                                                             | D                                                                    |                                                                                |
| Common<br>Stock                                                  | 12/06/2011                              |                                                             | S <sup>(1)</sup>                        | 2,500 D<br>\$<br>49.35                                                  | 13,463                                                                                                             | D                                                                    |                                                                                |
| Common<br>Stock -<br>Restricted<br>Stock Units<br><sup>(2)</sup> |                                         |                                                             |                                         |                                                                         | 27,650 <sup>(3)</sup>                                                                                              | D                                                                    |                                                                                |

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

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SEC 1474  
(9-02)

**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 (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) |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|
|                                            |                                                        |                                      |                                                    | Code                           | V (A) (D)                                                                      | Date Exercisable Expiration Date                         | Title Amount or Number of Shares                              |
| Non-Qualified Stock Option (Right to Buy)  | \$ 39.35                                               | 12/06/2011                           |                                                    | M                              | 2,500                                                                          | <sup>(4)</sup> 05/21/2013                                | Common Stock 2,500                                            |

## Reporting Owners

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

## Signatures

Brian M. Martin as Attorney-in-Fact for Virendra A. Kirloskar

12/08/2011

\*\*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 a Rule 10b5-1 trading plan adopted by the Reporting Person on March 7, 2011.

(2) 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 by the Reporting Person for which an assessment has not yet been made  
(3) 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)

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Represents a stock option granted on May 21, 2003, granting the Reporting Person the right to purchase up to 15,000 shares of KLA-Tencor common stock. 3,000 of the shares subject to this option vested on the one-year anniversary of the grant date, and 1/48 of the remaining 12,000 shares subject to this stock option vested on each monthly anniversary thereafter until May 21, 2008.

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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