

Hall Jeffrey
 Form 5
 August 11, 2005

FORM 5

**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).
 Form 3 Holdings Reported Form 4 Transactions Reported

ANNUAL 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

1. Name and Address of Reporting Person *
 Hall Jeffrey
 (Last) (First) (Middle)

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

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

C/O KLA-TENCOR CORP., 160 RIO ROBLES
 (Street)

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
 06/30/2005

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 VP, Corporate Finance

SAN JOSE, CA 95134
 (City) (State) (Zip)

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

6. Individual or Joint/Group Reporting
 (check applicable line)

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 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 at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|-------------------------------------|--------------------------------------|--|--------------------------------|---|--|--|---|
| Common Stock | Â | Â | Â | (A) Amount (D) Price | 1,791 | D | Â |
| Common Stock-Restricted Stock Units | Â | Â | Â | Â | 10,000 | D | Â |

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 Security (Instr. 3 and 4) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----------------|---|----------------------------|
| | | | | | (A) (D) | Date Exercisable | Expiration Date | Title | |
| Non-Qualified Stock Option | \$ 29.31 | Â | Â | Â | Â Â | 10/02/2002 | 10/02/2011 | Common Stock | 17,2 |
| Non-Qualified Stock Option | \$ 34.67 | Â | Â | Â | Â Â | 11/08/2003 | 01/28/2013 | Common Stock | 5,5 |
| Non-Qualified Stock Option | \$ 37.05 | Â | Â | Â | Â Â | 11/08/2003 | 11/08/2012 | Common Stock | 3,2 |
| Non-Qualified Stock Option | \$ 40.66 | Â | Â | Â | Â Â | 10/27/2004 | 08/02/2014 | Common Stock | 1,9 |
| Non-Qualified Stock Option | \$ 41.79 | Â | Â | Â | Â Â | 09/21/2005 | 09/21/2014 | Common Stock | 20,0 |
| Non-Qualified Stock Option | \$ 45.16 | Â | Â | Â | Â Â | 10/26/2004 | 04/26/2014 | Common Stock | 3,2 |
| Non-Qualified Stock Option | \$ 46.67 | Â | Â | Â | Â Â | 11/10/2001 | 07/10/2011 | Common Stock | 35,8 |
| Non-Qualified Stock Option | \$ 51.229 | Â | Â | Â | Â Â | 11/08/2003 | 07/30/2013 | Common Stock | 3,2 |
| Non-Qualified Stock Option | \$ 53.86 | Â | Â | Â | Â Â | 10/27/2004 | 10/27/2013 | Common Stock | 5,2 |
| Non-Qualified Stock Option | \$ 58.1 | Â | Â | Â | Â Â | 10/27/2004 | 01/27/2014 | Common Stock | 2,6 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Hall Jeffrey C/O KLA-TENCOR CORP. 160 RIO ROBLES SAN JOSE, CA 95134 | Â | Â | Â VP, Corporate Finance | Â |

Signatures

Jeffrey Leroy
Hall

08/11/2005

 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).

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