

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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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)

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

(Street)

SAN JOSE, CA 95134

(City) (State) (Zip)

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

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

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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) or (D) Amount 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) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----------------|---|----------------------------|
| | | | | | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| 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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