#### KLA TENCOR CORP

Check this box

if no longer

subject to

Section 16.

Form 4

August 03, 2005

### FORM 4

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

OMB

**OMB APPROVAL** 

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES** 

Form 4 or Form 5 obligations may continue. See Instruction

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person \* KAUFMAN STEPHEN P

2. Issuer Name and Ticker or Trading Symbol

KLA TENCOR CORP [KLAC]

5. Relationship of Reporting Person(s) to

(Check all applicable)

Issuer

below)

(Last)

(First)

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year)

X\_ Director Officer (give title

10% Owner Other (specify

C/O KLA-TENCOR CORPORATION, 160 RIO **ROBLES** 

> (Street) 4. If Amendment, Date Original

> > Filed(Month/Day/Year)

08/02/2005

6. Individual or Joint/Group Filing(Check

Applicable Line)

\_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

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

SAN JOSE, CA 95130

(City) (State) (Zip) 2. Transaction Date 2A. Deemed

3. 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Month/Day/Year) (Instr. 8)

5. Amount of Securities Beneficially (D) or Owned Following (Instr. 4)

6. Ownership 7. Nature of Form: Direct Indirect Beneficial Ownership Indirect (I) (Instr. 4)

(A) or

Reported Transaction(s)

Code V Amount (D) Price

(Instr. 3 and 4)

Common Stock

1. Title of

Security

(Instr. 3)

1,000 D

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

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

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

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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. Transactic Code (Instr. 8)	5. Number coof Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration Dat	. Date Exercisable and Expiration Date Month/Day/Year)		7. Title and Amour Underlying Securit (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amo or Num of Sh	
Non-Qualified Stock Option (right to buy)	\$ 51.35	08/02/2005		A	2,500	08/02/2005	08/02/2015	Common Stock	2,5	
Non-Qualified Stock Option (right to buy)	\$ 37.05					11/08/2002	11/08/2012	Common Stock	10,0	
Non-Qualified Stock Option (right to buy)	\$ 40.24					05/11/2005	05/11/2015	Common Stock	2,5	
Non-Qualified Stock Option (right to buy)	\$ 40.68					10/18/2004	10/18/2014	Common Stock	2,5	
Non-Qualified Stock Option (right to buy)	\$ 44.76					01/25/2005	01/25/2015	Common Stock	2,5	
Non-Qualified Stock Option (right to buy)	\$ 59.44					11/05/2003	11/05/2013	Common Stock	10,0	

# **Reporting Owners**

Reporting Owner Name / Address	Relationships					
<b>FG</b>	Director	10% Owner	Officer	Other		
KAUFMAN STEPHEN P C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X					
Signatures						
By: Stuart J. Nichols For: Stephen P. Kaufman	08/03/2005					
**Signature of Reporting Person		Date				

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## **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).

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.