KAUFMAN STEPHEN P

Form 4

January 26, 2005

FORM 4

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

SECURITIES

OMB Number:

3235-0287

OMB APPROVAL

Expires: STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

January 31, 2005

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

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

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

below)

KLA TENCOR CORP [KLAC]

(Check all applicable)

(Last)

(First) (Middle) 3. Date of Earliest Transaction

X_ Director 10% Owner Officer (give title Other (specify

(Month/Day/Year) 01/25/2005

C/O KLA-TENCOR CORPORATION, 160 RIO

ROBLES

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

SAN JOSE, CA 95130

(City) (State) (Zip)

(Street)

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

1. Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned **Following**

Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Ownership Indirect (I)

(Instr. 4) (Instr. 4)

(Month/Day/Year)

(A) or Code V Amount (D) Price

Transaction(s) (Instr. 3 and 4)

Common Stock

1,000 D

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)

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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 conf 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 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)	\$ 44.76	01/25/2005		A	2,500	01/25/2005	01/25/2015	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)	\$ 40.68					10/18/2004	10/18/2014	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					
	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 01/26/2005

**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).

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.

Reporting Owners 2