MARKS MICHAEL E Form 4

May 11, 2005

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

0.5

January 31, Expires: 2005

OMB APPROVAL

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Check this box

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 * MARKS MICHAEL E

(First)

(Street)

(State)

2. Issuer Name and Ticker or Trading Symbol

KLA TENCOR CORP [KLAC]

5. Relationship of Reporting Person(s) to

Issuer

below)

(Middle)

3. Date of Earliest Transaction

(Check all applicable)

Officer (give title

(Month/Day/Year) 05/11/2005

C/O KLA-TENCOR CORPORATION, 160 RIO

ROBLES

(City)

(Last)

4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year) Applicable Line)

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

X_ Director

SAN JOSE, CA 95130

(Zip)

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

1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

(Month/Day/Year)

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

5. Amount of 6. Ownership Securities Beneficially Owned (I) Following (Instr. 4)

7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4)

10% Owner

Other (specify

Reported (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price

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)

1. Title of Derivative Conversion

3. Transaction Date 3A. Deemed (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date

5. Number

6. Date Exercisable and

7. Title and Amour Underlying Securit

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Security (Instr. 3)	or Exerci Price of Derivativ Security		any (Month/Day/Year)	Code (Instr. 8	3)	Securities Acquired (A) or Disposed (D) (Instr. 3, and 5)	d d of	(Month/Day/Year)		(Instr. 3 and 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amo or Num of Sh
Non-Quali Stock Opti (right to bu	ion \$ 40.2	4 05/11/2005		A		2,500		05/11/2005	05/11/2015	Common Stock	2,5
Non-Quali Stock Opti (right to be	ion \$ 40.6	8						10/18/2004	10/18/2014	Common Stock	2,5
Non-Quali Stock Opti (right to bu	ion \$ 44.7	6						01/25/2005	01/25/2015	Common Stock	2,5
Non-Quali Stock Opti (right to bu	ion \$ 59.4	4						11/05/2003	11/05/2013	Common Stock	10,0

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
MARKS MICHAEL E C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X						

Signatures

By: Stuart J. Nichols For: Michael
Marks
05/11/2005

**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).

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.

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