

LAMB MAUREEN L
 Form 4/A
 June 30, 2005

FORM 4

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

OMB APPROVAL

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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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 LAMB MAUREEN L

(Last) (First) (Middle)
 160 RIO ROBLES
 (Street)

SAN JOSE, CA 95134

(City) (State) (Zip)

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

3. Date of Earliest Transaction
 (Month/Day/Year)
 06/28/2005

4. If Amendment, Date Original Filed(Month/Day/Year)
 06/29/2005

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	06/28/2005		M		1,740	A	\$ 44.6875
Common Stock	06/28/2005		S		1,740	D	\$ 45
Common Stock	06/28/2005		M		13,260	A	\$ 44.6875
Common Stock	06/28/2005		S		13,260	D	\$ 45
Common Stock	06/28/2005		M		712	A	\$ 40.66

Non-Qualified Stock Option	\$ 53.86	10/27/2004	10/27/2013	Common Stock	6,
Non-Qualified Stock Option	\$ 58.1	10/27/2004	01/27/2014	Common Stock	3,

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
LAMB MAUREEN L 160 RIO ROBLES SAN JOSE, CA 95134			VP Finance & Treasury	

Signatures

Maureen Lamb 06/30/2005

__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).

(1) In error the Officer's broker reported a sale of 1,187 shares from this stock option.

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.