FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
Estimated average burden
hours per response... 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

\$ 26.25

Option

(right to buy)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

mstruc	tion 1(b).			111	VCStiii	om ec	,iiip.c	uny 110	1 01 1	710							
(Print or Typ	e Responses)															
1. Name and Address of Reporting Person * LAMB MAUREEN L				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle) C/O KLA-TENCOR CORP., 160 RIO ROBLES (Street) SAN JOSE, CA 95134				Date of Earliest Transaction (Month/Day/Year) 09/08/2003 Hi Amendment, Date Original Filed(Month/Day/Year)							X	X_Officer (give title below) Other (specify below) VP Finance & Accounting 6. Individual or Joint/Group FilingCheck Applicable Line) X_Form filed by One Reporting Person Form filed by More than One Reporting Person					
											X F						
(City		(State)	(Zip)	Table I - Non-Derivative Securities Acqui							uired.	ired. Disposed of, or Beneficially Owned					
1.Title of Se	ecurity		2. Transaction	2A. Deer	med		Transaction 4. Securities Acquire				-		•	, ,		6.	7. Nature
(Instr. 3) Date			Date	Execution Date, if		if Co	(Instr. 8)		or Disposed of (D) (Instr. 3, 4 and 5)		D)	Owned Transac		vned Following Reported ansaction(s)		Ownership Form:	of Indirect Beneficial Ownership
						(Code	V	Amou	(A) or (D)	Price				1	or Indirect (I) (Instr. 4)	(Instr. 4)
Common	Stock		09/08/2003				M		3,00	0 A	\$ 33.7	5 6,1	96			D	
Common	Stock		09/08/2003				S		3,00	0 D	\$ 57.863	3,1	96			D	
Common	Stock		09/08/2003				M		6,00	0 A	\$ 29.3	1 9,1	96			D	
Common	Stock		09/08/2003				S		6,00	0 D	\$ 57.863	3,1	96			D	
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year	3A. Deemed Execution Date, if) any (Month/Day/Year	4. Transac Code	5. of D So A (A D of	Number erivative ecurities equired (A) or isposed (CD)	er 6 E	Expiration Date (Month/Day/Year)			7. T of U Secu	7. Title and Amount of Underlying Securities (Instr. 3 and 4)			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form of Deriva Securi Direct or Indi	Owners (Instr. 4) (D) (rect)
				Code		nstr. 3, ad 5)	E E	Date Exercisab		Expiration Date	Title	,	Amount or Number of Shares		(Ilisti. 4)	(instr. 2	,
Non- Qualified Stock Option (right to buy)	\$ 29.31	09/08/2003		М		6,00	00 1	0/02/20	002	10/02/20		nmon tock	6,000	\$ 57.8638	16,500	D	
Non- Qualified Stock Option (right to buy)	\$ 33.75	09/08/2003		М		3,00	00 1	10/27/20	000	10/27/20	()91	nmon tock	3,000	\$ 57.8638	334	D	
Non- Qualified Stock											Coı	nmon					

11/10/2001 11/10/2010

3,875

Stock

3,875

D

Non- Qualified Stock Option (right to buy)	\$ 32.75			04/04/2002	04/04/2011	Common Stock	7,500	7,500	D	
Non- Qualified Stock Option (right to buy)	\$ 34.67			11/08/2003	01/28/2013	Common Stock	7,500	7,500	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2003	11/08/2012	Common Stock	3,750	3,750	D	
Non- Qualified Stock Option (right to buy)	\$ 44.6875			08/13/2001	08/13/2010	Common Stock	15,000	15,000	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	3,750	3,750	D	

Reporting Owners

D C O N	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
LAMB MAUREEN L C/O KLA-TENCOR CORP. 160 RIO ROBLES SAN JOSE, CA 95134			VP Finance & Accounting						

Signatures

By: Stuart J. Nichols For: Maureen L. Lamb	09/08/2003
**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).

 $Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, {\it see}\ Instruction\ 6 \ for\ procedure.$

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.