FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

(Print or Type Responses)

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

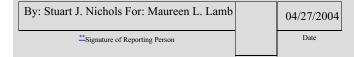
1. Name and Address of Reporting Person— LAMB MAUREEN L				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner							
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES			237 160 DIO	3. Date of Earliest Transaction (Month/Day/Year) 04/26/2004							X Officer (give title below) Other (specify below) VP Finance & Accounting							
		(Street)		4. If Ame	endn	nent, Da	te Or	iginal Filed(M	Ionth.	/Day/Year)		_X_ F	orm filed by	One Reporting I	Filing(Check Person Reporting Person		ne)	
-	SE, CA 951												illi illed by r	viole than One r	ceporting reisor			
(City	⁽)	(State)	(Zip)			7	Table	e I - Non-Der	ivat	ive Securities	s Acqui	red, l	Disposed	of, or Benef	icially Own	ed		
1.Title of So (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year	any	ion	ed Date, if ay/Year)	Cod	le	(A)	or Disposed o tr. 3, 4 and 5)	of (D)	Owns Trans		securities Being Reported		6. Ownership Form: Direct (D)	of In Bene Own	eficial ership
							C	Code V	Am	ount (A) or (D)	Price					or Indirect (I) (Instr. 4)	(Inst	r. 4)
Common	Stock											3,50	6			D		
Reminder: I	Report on a s	eparate line for each		· Derivat	ive S	Securitio	es Ac	Persor in this display	ns v for ys a	who respond m are not re a currently v d of, or Benef ertible securit	equired alid O	l to r MB c	espond ontrol n	unless the		ed SEC	1474	(9-02)
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	onversion reservise (Month/Day/Year) Date Execution Date, if any (Month/Day/Year) (Month/Day/Year) Transaction of Code (Instr. 8) Code (Instr. 8) Expiration Date (Month/Day/Year) Securities Acquired		able and	7. Title and Amou of Underlying Securities (Instr. 3 and 4)		ng		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Owner Form of Deriva Securit Direct or India	ship of Etive (CD) rect	(Instr. 4)						
				Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title		Amount or Number of Shares					
Non- Qualified Stock Option (right to buy)	\$ 45.16	04/26/2004		A		3,750		10/27/200	04 (04/26/2014	Com		3,750	\$ 0	3,750	D		
Non- Qualified Stock Option (right to buy)	\$ 26.25							11/10/200)1]	11/10/2010	Com		3,875		3,875	D		
Non- Qualified Stock Option (right to buy)	\$ 29.31							10/02/200	02	10/02/2011	Com		16,500		16,500	D		
Non- Qualified Stock Option (right to buy)	\$ 32.75							04/04/200	02 (04/04/2011	Com		7,500		7,500	D		

Non- Qualified Stock Option (right to buy)	\$ 33.75			10/27/2000	10/27/2009	Common Stock	334	334	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	
Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	6,000	6,000	D	
Non- Qualified Stock Option (right to buy)	\$ 58.10			10/27/2004	01/27/2014	Common Stock	3,000	3,000	D	

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
LAMB MAUREEN L C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			VP Finance & Accounting					

Signatures



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.