### 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).

#### 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

(Fint of Tyl	e Responses	)															
1. Name and Address of Reporting Person * BINGHAM H RAYMOND			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)X Director10% Owner							
C/O KLA ROBLES	-TENCOR	(First)  R CORPORATIO		3. Date o			ansac	ction (Month/	Day	/Year)	-	Office	(give	title below)	Othe	er (specify belo	w)
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year)								6. Individual or Joint/Group FilingCheck Applicable Line)					
SAN JOS (City	E, CA 951	(State)	(Zip)														
		(State)				-		1	ivat	ive Securities							
1.Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Ye			2A. Deemed Execution Date, if any (Month/Day/Year)		Date, if	(Instr. 8)		4. Securities Acqu (A) or Disposed of (Instr. 3, 4 and 5)				llowi n(s)	·		6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Co	ode V	Amo	ount (A) or (D)	Price	or Indirect (I) (Instr. 4)			(msu. +)		
Reminder: F	Report on a se	eparate line for each	class of securities b	eneficial	lv ov	vned dir	ectly	or indirectly									
					<u>, , , , , , , , , , , , , , , , , , , </u>			Persoi in this	ns v for	who respond m are not re n currently v	quired	to respo	nd ı	unless the		ed SEC	1474 (9-02
			Table II -							d of, or Benef ertible securit		Owned					
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)	Code		5. Num of Derivat Securit Acquir (A) or Dispose of (D) (Instr. 3 and 5)	tive ies ed	6. Date Exe Expiration I (Month/Day	Date		of Unde Securiti	. Title and Amount f Underlying ecurities instr. 3 and 4)			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form of Derivative Security: Direct (D) or Indirect	Owner (Instr. de Construction (Instruction (Instruct
				Code	V	(A)	(D)	Date Exercisable		Expiration Date	Title	Amo or Num of Shar	nber				
Non- Qualified Stock Option (right to buy)	\$ 40.68	10/18/2004		A		2,500		10/18/200	04 1	10/18/2014	Comm Stoc	. /	500	\$ 0	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05							11/08/200	02	11/08/2012	Comm Stoc	110.	000		10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 47.23							11/09/200	01	11/09/2011	Comm Stoc	110	000		10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 52.75							08/15/200	00 (	08/15/2010	Comm	120	000		20,000	D	

Non-											1
Qualified											i
Stock	\$ 59.44				11/05/2003	11/05/2013	Common	10 000	10,000	D	
Option	Ψ 37.11				11/03/2003	11/05/2015	Stock	10,000	10,000		
(right to											i
buy)											i

#### **Reporting Owners**

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

## Signatures

By: Stuart J. Nichols For: Raymond H. Bingham	10/18/2004		
**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.