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

	OMB APPROVAL						
	OMB Number:	3235-0362					
	Estimated average bu	rden					
S	hours per response	1.0					

subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b). Form 3 Holdings Reported

Form 4 Transactions

Reported

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES hours per response...

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 * 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 Director 10% Owner			
(Last)	(First)	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)			Officer (give title below) Ot	ther (specify belo	ow)		
			06/30/2004							
KLA-TENCOR CC	)RP., 160 RIO I	ROBLES								
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)				6. Individual or Joint/Group Reporting (check applicable line)			
SAN JOSE, CA 95134							_X_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person			
(City) (State) (Zip)			Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Date, if	Code (Instr. 8)	4. Securit (A) or Di (Instr. 3,	isposed o 4 and 5) (A) or	f(D)	(Instr. 3 and 4)	Ownership Form:	Beneficial Ownership

owned directly or indirectly.

Reminder: Report on a separate line for each class of securities beneficially Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 2270 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	5. Numi of Deriv Secur Acqu (A) o Dispo of (D (Instr 4, and	vative rities aired or cosed o) : 3,	6. Date Exerci Expiration Dat (Month/Day/Y	e	of Underlying		8. Price of Derivative Security (Instr. 5)	of Derivative Securities	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option	\$ 37.05						11/08/2002	11/08/2012	Common Stock	10,000		10,000	D	
Non- Qualified Stock Option	\$ 47.23						11/09/2001	11/09/2011	Common Stock	10,000		10,000	D	
Non- Qualified Stock Option	\$ 52.75						08/15/2000	08/15/2010	Common Stock	20,000		20,000	D	
Non- Qualified Stock Option	\$ 59.44						11/05/2003	11/05/2013	Common Stock	10,000		10,000	D	

# **Reporting Owners**

	Relationships					
Reporting Owner Name /	Director	10% Owner	Officer	Other		
Address						

BINGHAM H RAYMOND KLA-TENCOR CORP. 160 RIO ROBLES SAN JOSE, CA 95134	X				
---	---	--	--	--	--

## **Signatures**

Raymond H. Bingham	08/12/2004
**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).

### Remarks:

Form 5 filed to voluntarily report all holdings. No transactions to report.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.