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

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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 or Section 30(h) of the Investment Company Act of 1940

(Finit of Type Responses)												
1. Name and Address of Reporting Person [*] BINGHAM H RAYMOND	ŀ	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				
(Last) (First) (Midd C/O KLA-TENCOR CORPORATION, 160 ROBLES	o Bro	3. Date of Earliest Transaction (Month/Day/Year) Officer (give title below) Officer (give title below) Officer (give title below)								w)		
(Street) SAN JOSE, CA 95130	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City) (State) (Zip	p)		Fable I - No	on-De	erivative S	Securitie	s Acqu	ired, Disposed of, or Beneficially Owr	ed			
(Instr. 3) Date		2A. Deemed Execution Date, if any			4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form:	7. Nature of Indirect Beneficial		
		(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)		

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained SEC 1474 (9-02) in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities)															
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)		4. Transac Code (Instr. 8		5. Num of Derivat Securit Acquire (A) or Dispose of (D) (Instr. 3 and 5)	ive ies ed ed	Expiration Date (Month/Day/Year)		of Underlying		Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported Transaction(s)	Security: Direct (D) or Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$ 51.35	08/02/2005		А		2,500		08/02/2005	08/02/2015	Common Stock	2,500	\$ O	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05							11/08/2002	11/08/2012	Common Stock	10,000		10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 40.24							05/11/2005	05/11/2015	Common Stock	2,500		2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 40.68							10/18/2004	10/18/2014	Common Stock	2,500		2,500	D	

Non- Qualified Stock Option (right to buy)	\$ 44.76			01/25/2005	01/25/2015	Common Stock	5,000	5,000	D	
Non- Qualified Stock Option (right to buy)	\$ 47.23			11/09/2001	11/09/2011	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 52.75			08/15/2000	08/15/2010	Common Stock	20,000	20,000	D	
Non- Qualified Stock Option (right to buy)	\$ 59.44			11/05/2003	11/05/2013	Common Stock	10,000	10,000	D	

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	Х								

Signatures

By: Stuart J. Nichols For: H. Raymond Bingham	08/03/2005
**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).

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

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