

KLA TENCOR CORP  
 Form 5  
 August 14, 2006

**FORM 5**

**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).  
 Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person \*  
**BINGHAM H RAYMOND**  
 (Last) (First) (Middle)

2. Issuer Name and Ticker or Trading Symbol  
**KLA TENCOR CORP [klac]**

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

**160 RIO ROBLES**  
 (Street)

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
**06/30/2006**

Director  10% Owner  
 Officer (give title below)  Other (specify below)

**SAN JOSE, CA 95134**  
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Reporting  
 (check applicable line)

Form Filed by One Reporting Person  
 Form Filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D) Amount Price			
Common Stock - Restricted Stock Units					1,000	D	

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

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

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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)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Security (Instr. 3 and 4)		
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Non-Qualified Stock Option	\$ 40.24	Â	Â	Â	Â	Â	05/11/2005	05/11/2015	Common Stock	2,5
Non-Qualified Stock Option	\$ 40.68	Â	Â	Â	Â	Â	10/18/2004	10/18/2014	Common Stock	2,5
Non-Qualified Stock Option	\$ 44.76	Â	Â	Â	Â	Â	01/25/2005	01/25/2015	Common Stock	5,0
Non-Qualified Stock Option	\$ 47.23	Â	Â	Â	Â	Â	11/09/2001	11/09/2011	Common Stock	10,0
Non-Qualified Stock Option	\$ 47.86	Â	Â	Â	Â	Â	05/02/2006	05/02/2013	Common Stock	1,2
Non-Qualified Stock Option	\$ 49.99	Â	Â	Â	Â	Â	11/04/2005	11/04/2012	Common Stock	3,7
Non-Qualified Stock Option	\$ 51.35	Â	Â	Â	Â	Â	08/02/2005	08/02/2012	Common Stock	2,5
Non-Qualified Stock Option	\$ 51.98	Â	Â	Â	Â	Â	01/31/2006	01/31/2013	Common Stock	1,2
Non-Qualified Stock Option	\$ 52.75	Â	Â	Â	Â	Â	08/15/2000	08/15/2010	Common Stock	20,0
Non-Qualified Stock Option	\$ 59.44	Â	Â	Â	Â	Â	11/05/2003	11/05/2013	Common Stock	10,0

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BINGHAM H RAYMOND 160 RIO ROBLES SAN JOSE, CA 95134	Â X	Â	Â	Â

## Signatures

H. Raymond  
Bingham

08/14/2006

    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).

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### Remarks:

Voluntary filing of Form 5 to show all holdings as of 6/30/2006.

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.