KLA TENCOR CORP

Check this box if

no longer subject

to Section 16.

5 obligations

may continue.

Form 4 or Form

Form 5

August 11, 2006

FORM 5

OMB APPROVAL

OMB 3235-0362 Number:

January 31, Expires: 2005

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ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940

Form 4 Transactions

Reported

1. Name and Ad BOND ROB	ldress of Reporting P ERT T	Symbol				5. Relationship of Reporting Person(s) to Issuer				
(Last)	(First) (M	iddle) 3. Statemo (Month/D	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2006				(Check all applicable) _X_ Director 10% Owner Officer (give title Other (specify			
160 RIO RO	BLES					b	pelow)	below)		
	(Street)	4. If Ame	4. If Amendment, Date Original				6. Individual or Joint/Group Reporting			
		Filed(Mon	Filed(Month/Day/Year)				(check applicable line)			
SAN JOSE,Á	À CAÂ 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)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Secur Acquired Disposed (Instr. 3,	d (A) od of (E), 4 and (A) or))	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)		
Common Stock	Â	Â	Â	Â	Â	Â	2,000	D	Â	
Common Stock - Restricted	Â	Â	Â	Â	Â	Â	1,000	D	Â	

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

Stock Units

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SEC 2270 (9-02)

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$\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (e.g., puts, calls, warrants, options, convertible securities) \end{tabular}$

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. Numb of Deriva Securi Acqui (A) or Dispo of (D) (Instr. 4, and	ative ities ired seed of the s	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amoun Underlying Securiti (Instr. 3 and 4)	
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amor or Numl of Sh
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	2,5
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	1,2
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						
F	Director	10% Owner	Officer	Othe			
BOND ROBERT T 160 RIO ROBLES SAN JOSE Â CA Â 95134	ÂX	Â	Â	Â			

Reporting Owners 2

Signatures

Robert T. Bond 08/11/2006

**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 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.

Signatures 3