

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

1. Name and Address of Reporting Person* KISPert JOHN H		2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [klac]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director _____ 10% Owner _____ <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) _____ President & COO					
(Last) (First) (Middle)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2006							
160 RIO ROBLES		4. If Amendment, Date Original Filed(Month/Day/Year)		6. Individual or Joint/Group Reporting (check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person					
(Street)									
SAN JOSE, CA 95134		4. If Amendment, Date Original Filed(Month/Day/Year)							
(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. 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 Indirect Beneficial Ownership (Instr. 4)
				Amount	(A) or (D)	Price			
Common Stock							7,241 (1)	I	by Trust
Common Stock - Restricted Stock Units							98,333	D	

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 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	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 Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned at End of Issuer's Fiscal Year (Instr. 4)	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
Non-Qualified Stock Option	\$ 26.25						11/01/2001	11/10/2010	Common Stock	1,000		1,000	D	
Non-Qualified Stock Option	\$ 29.31						10/02/2002	10/02/2011	Common Stock	14,000		14,000	D	
Non-Qualified Stock Option	\$ 32.75						04/04/2002	04/04/2011	Common Stock	2,667		2,667	D	
Non-Qualified Stock Option	\$ 34.67						11/08/2003	01/28/2013	Common Stock	11,250		11,250	D	
Non-Qualified Stock Option	\$ 37.05						11/08/2003	11/08/2012	Common Stock	5,625		5,625	D	

Non-Qualified Stock Option	\$ 40.66					10/27/2004	08/02/2014	Common Stock	11,250		11,250	D	
Non-Qualified Stock Option	\$ 41.79					09/21/2005	09/21/2014	Common Stock	75,000		75,000	D	
Non-Qualified Stock Option	\$ 44.6875					08/13/2001	08/13/2010	Common Stock	8,658		8,658	D	
Non-Qualified Stock Option	\$ 45.16					10/27/2004	04/26/2014	Common Stock	18,750		18,750	D	
Non-Qualified Stock Option	\$ 47.95					09/26/2006	09/26/2012	Common Stock	75,000		75,000	D	
Non-Qualified Stock Option	\$ 51.229					11/08/2003	07/30/2013	Common Stock	12,500		12,500	D	
Non-Qualified Stock Option	\$ 52.53					02/17/2007	02/17/2013	Common Stock	25,000		25,000	D	
Non-Qualified Stock Option	\$ 53.86					10/27/2004	10/27/2013	Common Stock	30,000		30,000	D	
Non-Qualified Stock Option	\$ 58.10					10/27/2004	01/27/2014	Common Stock	15,000		15,000	D	

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
KISPERT JOHN H 160 RIO ROBLES SAN JOSE, CA 95134			President & COO	

Signatures

John Kispert	08/14/2006
<small>**Signature of Reporting Person</small>	<small>Date</small>

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).

(1) Includes 574 shares purchased through the Employee Stock Purchase Plan during the fiscal year.

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.