

KLA TENCOR CORP
 Form 4/A
 January 30, 2007

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
KISPERT JOHN H

(Last) (First) (Middle)
 160 RIO ROBLES
 (Street)

SAN JOSE, CA 95130

(City) (State) (Zip)

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

3. Date of Earliest Transaction
 (Month/Day/Year)
12/22/2006

4. If Amendment, Date Original Filed(Month/Day/Year)
12/22/2006

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

Chief Operating Officer

6. Individual or Joint/Group Filing(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 Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership Indirect Beneficial Ownership (Instr. 4)		
				(A) or (D)	Code	V	Amount	(D)	Price

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

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SEC 1474
 (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	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code	5. Number of Derivative Securities Acquired	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Underlying (Instr. 3 and 4)
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(Instr. 3)	Price of Derivative Security	(Month/Day/Year)	(Instr. 8) Code V	(A) or Disposed of (D) (Instr. 3, 4, and 5)	(A)	(D)	Date Exercisable	Expiration Date	Title
Non-Qualified Stock Option (right to buy)	\$ 32.75	12/22/2006	D ⁽¹⁾		2,667		⁽²⁾	04/04/2011 ⁽³⁾	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 50.82	12/22/2006	A ⁽¹⁾	2,667			⁽²⁾	04/04/2011 ⁽³⁾	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 29.31	12/22/2006	D ⁽¹⁾		14,000		⁽²⁾	10/02/2011 ⁽³⁾	Common Stock
Non-Qualified Stock Option (right to buy)	\$ 45.25	12/22/2006	A ⁽¹⁾	14,000			⁽²⁾	10/02/2011 ⁽³⁾	Common Stock

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
KISPert JOHN H 160 RIO ROBLES SAN JOSE, CA 95130			Chief Operating Officer	

Signatures

Jeff Hall, Attorney in fact for John Kispert
 Date: 01/30/2007

__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).

- The reported transactions are exempt under SEC Rule 16-b-3, and the related disposition and acquisition transactions for each option involved an amendment to a portion of that option increasing the exercise price per share of such portion to comply with the requirements of Section 409A of the Internal Revenue Code. Such amendment is deemed the cancellation of the portion of the lower-priced option and the grant a replacement option at the higher exercise price per share.
- (1) The option is currently exercisable for vested shares.
 - (2) The option is currently exercisable for vested shares.
 - (3) The expiration date of the option was entered incorrectly on the original Form 4 filing.

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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