FORM	4
------	---

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

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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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

(Print or Type Responses)											
1. Name and Address of Reporting Person [*] KAUFMAN STEPHEN P	ł	2. Issuer Name and XLA TENCOR C			Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) C/O KLA-TENCOR CORPORATION ROBLES	T 1 (0 DTO	3. Date of Earliest Transaction (Month/Day/Year) 02/14/2007					Officer (give title below)Oth	er (specify belo	w)		
(Street) SAN JOSE, CA 95130	4	. If Amendment, Dat	e Original F	iled(N	Ionth/Day/Y	ear)	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)	Table I - Non-Derivative Securities Acqu						uired, Disposed of, or Beneficially Owned			
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year	Execution Date, if	(Instr. 8)		(A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or		f (D)	Owned Following Reported Transaction(s) (Instr. 3 and 4)	Form: Direct (D) or Indirect (I)	Beneficial Ownership	
Common Stock			Code	v	Amount	(D)	Price	1,000	(Instr. 4) D		
Common Stock-Restricted Stock Units ⁽¹⁾								1,000	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.

 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)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code		5. Num of Derivat Securit Acquira (A) or Dispose of (D) (Instr. 3 and 5)	tive ies ed ed	Expiration Date (Month/Day/Year)		e of Underlying		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Form of Derivative 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)	\$ 50.39	02/14/2007		А		1,250		02/14/2007	02/14/2014	Common Stock	1,250	\$ 0	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 50.39	02/14/2007		А		1,250		02/14/2007	02/14/2014	Common Stock	1,250	\$ 0	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)	\$ 41.45		08/01/2006	08/01/2013	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 44.76		01/25/2005	01/25/2015	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 47.86		05/02/2006	05/02/2013	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 49.99		11/04/2005	11/04/2012	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option (right to buy)	\$ 51.35		08/02/2005	08/02/2012 ⁽²⁾	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 51.98		01/31/2006	01/31/2013	Common Stock	1,250	1,250	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				
KAUFMAN STEPHEN P C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	Х							

Signatures

Stephen P. Kaufman	02/15/2007
**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).
- (1) Each restricted stock unit represents a contingent right to receive one share of KLAC common stock.
- (2) Option expiration date was reported incorrectly on the original Form 4.

Note: File three copies of this Form, one of which must be manually signed. If space 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.