FORM	4
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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).

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

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#### 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 <sup>*</sup> – KAUFMAN STEPHEN P	]	2. Issuer Name and KLA TENCOR C			•		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner			
(Last) (First) C/O KLA-TENCOR CORPORATIO ROBLES	T AGO DIO	3. Date of Earliest Transaction (Month/Day/Year) 01/31/2006					Officer (give title below)Oth	er (specify belo	w)	
(Street) SAN JOSE, CA 95130	4	4. If Amendment, Dat	e Original F	iled(N	1onth/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 Acquired, Disposed of, or Beneficially Owned								
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year	Execution Date, if	3. Transact: Code (Instr. 8) Code		4. Securi (A) or Di (Instr. 3, Amount	isposed o 4 and 5) (A) or		Owned Following Reported Transaction(s) (Instr. 3 and 4)	Form:	Beneficial Ownership
Common Stock			cour	•	- into unit	(2)		1,000	D	
Common Stock-Restricted Stock Units <sup>(1)</sup>								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)																		
Derivative Security	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code			tive ies ed ed	Expiration Date (Month/Day/Year)		Expiration Date		Expiration Date		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		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)	\$ 51.98	01/31/2006		А		1,250		01/31/2006	01/31/2013	Common Stock	1,250	\$ 0	1,250	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)	\$ 44.76		01/25/2005	01/25/2015	Common Stock	2,500	2,500	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 <sup>(2)</sup>	Common Stock	2,500	2,500	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

By: Stuart J. Nichols For: Stephen P. Kaufman	02/01/2006
**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).
- (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.

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