## FORM 4

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

OMB APPR	OVAL
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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).

#### 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

	e Responses	)														
1. Name and Address of Reporting Person * KAUFMAN STEPHEN P				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE (Street)				3. Date of Earliest Transaction (Month/Day/Year) 10/30/2007  4. If Amendment, Date Original Filed(Month/Day/Year)								Officer (give t	itle below)	Oth	er (specify belo	w)
											_X_ For	6. Individual or Joint/Group Filing(Check Applicable Line)  _X_Form filed by One Reporting Person  Form filed by More than One Reporting Person				
	AS, CA 950	(State)	(7in)													
(City	y) 	(State)	(Zip)				Tab	ole I - Non-Do	erivativ	ve Securities	Acquired, D	isposed o	f, or Benefi	cially Owne	d	1
1.Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year	2A. Deemed Execution Dany		Date, if	Code (A		(A) or	Securities Acquired A) or Disposed of (D) nstr. 3, 4 and 5)		5. Amount of Sec Owned Following Transaction(s)		eficially	Ownership	Beneficial
				(Month/Day/Yea		ay/Year)		3-4- W	<b>A</b>	(A) or		3 and 4)			Direct (D) or Indirect (I)	Ownership (Instr. 4)
								Code V	Amou	nt (D) I	Price				(Instr. 4)	
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Table II  3A. Deemed Execution Date, if	- Deriva (e.g., p 4. Transac Code	tive uts,	Securiticalls, wa	ies A arra ber ive	Perso in this a cur	ons whose form rently rently recisable Date	no respond are not req valid OMB of of, or Benefic tible securities	uired to recontrol nun	spond unber.  I  Amount	8. Price of		of 10. Owners Form of	Ownersh (Instr. 4)
	Security	iccurry					ed , 4,							Reported Transaction(s) (Instr. 4)	or Indir	ect
						+										
				Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares				

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
KAUFMAN STEPHEN P C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	X					

## **Signatures**

/s/ Brian Martin as Attorney-in-Fact for Stephen P. Kaufman	11/01/2007
**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) The Option is immediately exercisable for all the underlying shares.

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.