FORM 4

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

OMB APPROV	AL
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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				3. Date of Earliest Transaction (Month/Day/Year) 07/31/2007						Oi	ficer (give ti	le below)	Othe	r (specify belo	.v)	
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year) 08/02/2007						_X_ Forr	6. Individual or Joint/Group Filing(Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
MILPITAS, CA 95035 (City) (State) (Zip)				Table I - Non-Derivative Securities Acon						Acquired, Di						
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea		2A. Deemed Execution Da any (Month/Day/		Date, if	3. Co (In	Transaction de	4. Securities Acquire (A) or Disposed of (Instr. 3, 4 and 5) (A) or		ed 5. Amo Owned Transac	Amount of Securities Benefic wned Following Reported ansaction(s) astr. 3 and 4)		eficially	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code V			rice			(I)		(
								curren								
Derivative Security	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transac Code	puts, tion	5. Numb of Derivati Securitie Acquire (A) or Dispose	ve es d	Acquired, Disp nts, options, co 6. Date Exercis Date (Month/Day/Y	able and	le securities	s)	ng	8. Price of Derivative Security (Instr. 5)	Securities Beneficially Owned Following Reported	Owner Form of Deriva Securit Direct or Indi	Benefici Ownersl y: (Instr. 4)
Derivative Security	Conversion or Exercise Price of Derivative	Date	3A. Deemed Execution Date, if any	4. Transac Code	puts, tion	5. Numb of Derivati Securitic Acquire (A) or Dispose of (D) (Instr. 3, and 5)	ve es d	Acquired, Disp nts, options, co 6. Date Exercise Date	onvertib able and ear)	le securities	7. Title and of Underlyi Securities	ng	Derivative Security	Derivative Securities Beneficially Owned Following	Owner Form of Deriva Securit Direct or Indi	ship of Indire Benefici Ownersh y: (Instr. 4)

	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.
- (2) The 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.