FORM 4

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

OMB APPR	OVAL
OMB Number:	3235-0287
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nours per response	e 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 or Section 30(h) of the Investment Company Act of 1940

1. Name ar																		
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) 11/03/2011						Officer	r (give title belo	w)	Other (specify b	elow)					
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person									
MILPITA	AS, CA 95	035								roim me	d by More man	One Reporting	erson					
(City	r)	(State)	(Zip)	Ta	ble I - Non	-Deri	ivative Se	curities .	Acqui	red, Dispo	sed of, or E	Beneficially (Owned					
1.Title of S (Instr. 3)	Security		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year	(Instr. 8)	ction	(D)	ties Acquisposed of 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		neficially Owned Following ported Transaction(s) Fo bit or		Owned Following nsaction(s) Ownership of I Form: Ber Direct (D) Ownership of I Ownership of I		deneficially Owned Following deported Transaction(s) Instr. 3 and 4) Ownership Form: Bircet (D) Or Indirect (II		7. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	V	Amount	(D)	Price				(Instr. 4)					
Common Stock Un	Stock - R	estricted	11/03/2011		A		2,539 (2)	A	\$ 0	2,539			D					
Common	Stock									16 224			D					
	Report on a s	separate line for	r each class of securi	ties beneficially ov		•	•		-1 4 - 4	16,224	4:			1474 (0.02)				
	Report on a s	separate line for		ties beneficially ov		Perso	ons who ained in orm disp	respon this for plays a c	n are urrer	the collect not requ			SEC	1474 (9-02)				
Reminder:		•	Table II - I	Derivative Securit	ies Acquire	Perso conta the fo d, Dis	ons who ained in orm disp sposed of convertil	respon this for plays a c , or Bene ble secur	m are currer ficial	the collect not requently valid	ired to res OMB cont	ormation spond unle rol numbe	SEC sss	, ,				
Reminder:		3. Transaction	Table II - I	Derivative Securities, puts, calls, was 4. e, if Transaction Code (Instr. 8)	ies Acquire arrants, op 5.	Personta the for the for tions, 6. Da and E	ons who ained in orm disp	respon this for plays a co , or Bene ble secur sable Date	ficiallities) 7. Ti Amo	the collect not requ	omB cont 8. Price of	ormation	SEC of 10. Ownersh Form of Derivati Security Direct (I or Indire	11. Natu of Indire Benefici Ownersh : (Instr. 4)				

Reporting Owners

	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

Brian M. Martin as Attorney-in-Fact for Stephen P. Kaufman	11/04/2011
**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 ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) The restricted stock units will fully vest one year from date of grant and will be deliverable on such date.

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.