FORM 4

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

OMB APPROVAL

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

(Print or Typ	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) 10/29/2013								(Officer (give	e title below)	Oth	ner (specify be	low)		
(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								
	S, CA 950	(State)	(7:)																
(City)		(Zip)	1			Table I	- Non-I	Deriv	vative	Securit	ies Acqui	ired, I	Disposed	of, or Bene	ficially Owr	ied		
(Instr. 3) Date		2. Transaction Date (Month/Day/Year)			Code (Instr.	saction 8)	(A)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	Transaction(s)			ted O	6. Ownership Form:	of I Ben	neficial		
				(Month/)	Jay/	y ear,	Code	e V	An	nount	(A) or (D)	Price	(Instr. 3 and 4)			Direct (D) or Indirect (I) (Instr. 4)		nership str. 4)	
Common	Stock		10/29/2013				M		5,0	000	A	\$ 59.44	8,53	39			D		
Common Stock 10/29/2013			10/29/2013			S		5,0	000	D	\$ 65.515	3,53	3,539			D			
Common Stock 10/29/2013						M		5,0	000	A	\$ 59.44	8,53	39			D			
Common Stock 10/29/2013			10/29/2013				S		5,0	000		\$ 65.51 (1)	3,53	39			D		
Common Stock													15,2	224			I	By (2)	Trust
Common Stock - Restricted Stock Units (3)											2,55	58			D				
Reminder: F	Report on a so	parate line for eacl	n class of securities Table II -	· Derivati	ve So	ecuri	ties Acq	Pers in the disp uired, D	sons his f plays	s who	are not urrently f, or Be	required valid O	d to re MB c	espond ontrol r	unless the	tion contai e form	ned SEC	C 1474	4 (9-02)
	2.	3. Transaction	3A. Deemed	4.		5. N	lumber	6. Date	ptions, convertible securities) . Date Exercisable and 7. Title			7. Title	le and Amount 8. Price of 9. Num						11. Natur
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year	Execution Date, i) any (Month/Day/Year	Code		Der Sec Acc (A) Dis of (posed D) tr. 3, 4,	Expiration Date of (Month/Day/Year) S		Securit	of Underlying Securities (Instr. 3 and 4)		Security	Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Form of Derivation Security Direct or India	of tive ty: (D) rect	of Indire Beneficia Ownersh (Instr. 4)		
				Code	V	(A)	(D)	Date Exercis	able		ration	Title		Amount or Number of Shares					
Non- Qualified Stock Option (Right to Buy)	\$ 59.44	10/29/2013		М			5,000	<u>(4</u>)	11/0	05/201:	3 Comn Stoc		5,000	\$ 0	0	D		
Non-																			

5,000

M

<u>(4)</u>

11/05/2013

Common

Stock

5,000

\$0

0

D

Reporting Owners

\$ 59.44

10/29/2013

Qualified Stock

(Right to Buy)

Option

	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	10/31/2013		
**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).
- This transaction was executed in multiple trades at prices ranging from \$65.50 to \$65.51. The price reported above reflects the weighted-average sales price. The Reporting Person hereby (1) undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer, full information regarding the number of shares and prices at which the transaction was affected
- (2) By The Stephen P. Kaufman Trust UAD 5/24/2002, of which the Reporting Person is a trustee and beneficiary.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) Represents a stock option granted on November 5, 2003, granting the Reporting Person the right to purchase up to 5,000 shares of KLA-Tencor common stock. All of the shares subject to this stock option vested immediately and were exercisable on November 5, 2003.

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.