FORM 4	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).

(Print or Type Perponses)

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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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									
1. Name and Address of Reporting Po Higgins Bren D.	2. Issuer Name an KLA TENCOR			<i>c</i> .	ıbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
ONE TECHNOLOGY DRIVE	3. Date of Earliest 09/09/2013	Transaction	n (Me	onth/Day/	Year)	X Officer (give title below) Other (specify below) EVP & Chief Financial Officer					
(Street) MILPITAS, CA 95035		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			
(City) (State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									
	2. Transaction Date (Month/Day/Year)		Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Beneficially Owned Following Reported Transaction(s)	Form:	7. Nature of Indirect Beneficial	
		(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	× /	irect (Instr. 4)	
Common Stock	09/09/2013		S <u>(1)</u>		489	D	\$ 58.85	0	D		
Common Stock	09/09/2013		А		2,400	А	<u>(2)</u>	2,400	D		
Common Stock	09/09/2013		F		902 (<u>3)</u>	D	\$ 58.9	1,498	D		
Common Stock	09/10/2013		S <u>(1)</u>		1,498	D	\$ 59	0	D		
Common Stock - Restricted Stock Units ⁽⁴⁾								29,645 ⁽⁵⁾	D		

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1474 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.		5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	on	Numl	ber	and Expirati	on Date	Amo	unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code		of		(Month/Day	/Year)	Unde	rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	ative			Secur	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Secur	Securities ((Instr. 3 and			Owned	Security:	(Instr. 4)	
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) o	r						Reported	or Indirect	
					Disposed							Transaction(s)	(I)		
					of (D)							(Instr. 4)	(Instr. 4)		
						(Instr. 3,									
						4, and 5)									
											Amount				
								Date	Expiration		or				
								Exercisable		Title	Number				
								Exercisable	Date		of				
				Code	V	(A)	(D)				Shares				

Reporting Owners

	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
Higgins Bren D. ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			EVP & Chief Financial Officer						

Signatures

Brian M. Martin as Attorney-in-Fact for Bren D. Higgins

**Signature of Reporting Person

09/11/2013 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) This transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on June 14, 2013.
- (2) On September 9, 2011, the Reporting Person received a grant of restricted stock units ("RSUs") covering 4,800 shares of KLA-Tencor common stock. On September 9, 2013, the Reporting Person vested in fifty percent (50%) of such RSUs.
- Pursuant to the terms of the September 9, 2011 RSU grant, 902 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax (3) withholding. The fair market value of KLA-Tencor common stock used for purposes of calculating the number of shares to be withheld was the closing price of KLA-Tencor common stock as reported on the NASDAQ Stock Market on such vesting date.
- (4) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (5) Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made regarding the achievement of the applicable performance goals. Any such holdings will be reported on a Form 4 within two business days of the date such assessment is made.

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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