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 Pa

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

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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 and Address of Reporting Po Kirk Michael (Last) (First) ONE TECHNOLOGY DRIVI	2. Issuer Name a KLA TENCOI 3. Date of Earliest 08/08/2013	R CORP	[KL	AC]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner _XOfficer (give title below) Other (specify below) Executive Vice President				
(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)	Τι	able I - No	n-De	rivative S	Securit	ies Acqui	ired, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)		2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr. 8)	tion	on 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Beneficial Ownership	
			Code	v	Amount	or (D)	Price		(Instr. 4)		
Common Stock	08/08/2013		S <u>(1)</u>		3,586 D \$58.395 (2)		58.395	491	D		
Common Stock - Restricted Stock Units ⁽³⁾								85,175 (<u>4)</u>	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	Numb	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	ities			(Instr	: 3 and		Owned	Security:	(Instr. 4)
	Security					Acqui	red			4)			Following	Direct (D)	
						(A) 01							Reported	or Indirect	
						Dispo	sed						Transaction(s)	(I)	
						of (D))						(Instr. 4)	(Instr. 4)	
						(Instr. 3,									
					·	4, and 5)									
											Amount				
								D .	.		or				
									Expiration	Title	Number				
								Exercisable	Date		of				
				Code	V	(A)	(D)				Shares				

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Kirk Michael ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			Executive Vice President					

Signatures

Jeffrey S. Eisenberg as Attorney-in-Fact for Michael D. Kirk	08/12/2013
**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).
- (1) This transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on December 6, 2012.
- This transaction was executed in multiple trades at prices ranging from \$58.11 to \$58.67. The price reported above reflects the weighted-average sales price. The Reporting (2) Person hereby 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 effected.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) 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 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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