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

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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

(Print or Type Responses)		1								
1. Name and Address of Reporting Po Kirk Michael	erson [*]	2. Issuer Name a KLA TENCOI			0,	nbol		5. Relationship of Reporting Perso (Check all appli Director	cable) 10% Owner	
ONE TECHNOLOGY DRIVE	(Middle) E	3. Date of Earliest 08/02/2014	Transacti	on (M	Ionth/Day	Year)	[X_Officer (give title below) Executive Vice P	Other (specify b resident	below)
(Street) MILPITAS, CA 95035		4. If Amendment,	Date Orig	inal F	iled(Month	Day/Yea	ar)	6. Individual or Joint/Group Filing _X_Form filed by One Reporting Person Form filed by More than One Reporting	· · · ·	ble Line)
(City) (State)	(Zip)	Ta	able I - No	on-De	rivative S	ecurit	ies Acqui	red, Disposed of, or Beneficially	Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if any	3. Transa Code (Instr. 8)		4. Securi (A) or Di (Instr. 3,	isposed	l of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form:	Beneficial
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	07/31/2014		G	V	491 <mark>(1)</mark>	D	\$ 0	416 (2)	D	
Common Stock	08/02/2014		А		10,400	А	<u>(3)</u>	10,816	D	
Common Stock	08/02/2014		F		4,560 (<u>4</u>)	D	\$ 71.631	6,256	D	
Common Stock	08/02/2014		А		2,625	А	<u>(5)</u>	8,881	D	
Common Stock	08/02/2014		F		987 <mark>(6)</mark>	D	\$ 71.631	7,894	D	
Common Stock - Restricted Stock Units ⁽⁷⁾								79,250 ⁽⁸⁾	D	

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

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SEC 1474 (9-02)

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

			(e.g.,	outs, cans,	, wa	arran	ts, op	tions, conver	tible securi	ties)					
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	Transacti	on	Num	ber	and Expirati	on Date	Amou	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					Secu				(Instr	. 3 and		Owned	Security:	(Instr. 4)
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) o							1	or Indirect	
						Dispo	osed						Transaction(s)	(I)	
						of (D	· · · · · ·						(Instr. 4)	(Instr. 4)	
						(Instr	· · · ·								
						4, and	d 5)								
											Amount				
								Dete	E		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

Brian M. Martin as Attorney-in-Fact for Michael D. Kirk

**Signature of Reporting Person

08/05/2014 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) Shares given as a charitable donation to The Ayco Charitable Foundation. This donation is being voluntarily reported on this Form 4.
- (2) Includes 245 shares acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on June 30, 2014.
- (3) On August 2, 2012, the Reporting Person received a grant of restricted stock units ("RSUs") covering 20,800 shares of KLA-Tencor common stock. On August 2, 2014, the Reporting Person vested in fifty percent (50%) of such RSUs.
- Pursuant to the terms of the August 2, 2012 RSU grant described in note (3) above, 4,560 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding. Because the vesting date of such RSUs occurred on a day on which the NASDAQ Stock Market was closed for trading, 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 the last completed trading day immediately prior to such vesting date.
 (5) On August 2, 2012, the Reporting Person received a grant of RSUs covering 10,500 shares of KLA-Tencor common stock. On August 2, 2014, the Reporting Person vested in twenty-five percent (25%) of such RSUs.

Pursuant to the terms of the August 2, 2012 RSU grant described in note (5) above, 987 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding. Because the vesting date of such RSUs occurred on a day on which the NASDAQ Stock Market was closed for trading, the fair market value

- (6) 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 the last completed trading day immediately prior to such vesting date.
- (7) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (8) 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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