KLA TENCOR CORP

Check this box

if no longer

Form 4

August 08, 2014

FORM 4

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

OMB Number:

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OMB APPROVAL

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF subject to Section 16. Form 4 or obligations

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

SECURITIES

30(h) of the Investment Company Act of 1940

1(b).

Form 5

(Print or Type Responses)

may continue.

See Instruction

1. Name and Address of Reporting Person *

Kirk Michael

2. Issuer Name and Ticker or Trading Symbol

KLA TENCOR CORP [KLAC]

Issuer

5. Relationship of Reporting Person(s) to

(Last)

(First)

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year) 08/06/2014

(Check all applicable)

Executive Vice President

Director 10% Owner

_X__ Officer (give title Other (specify below)

(Street)

ONE TECHNOLOGY DRIVE

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

MILPITAS, CA 95035

(City)	(State) (Z	Zip) Table	e I - Non-D	erivative :	Secur	ities Acqu	iired, Disposed of	, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Common Stock	08/06/2014		S(1)	7,890	D	\$ 70.91	416	D	
Common Stock	08/06/2014		A	3,338	A	<u>(2)</u>	3,754	D	
Common Stock	08/06/2014		F	1,742 (3)	D	\$ 71.88	2,012	D	
Common Stock - Restricted Stock Units							59,412 <u>(5)</u>	D	

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

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SEC 1474 (9-02)

> 9. Nu Deriv Secur Bene Own Follo Repo Trans

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerci	isable and	7. Title	e and	8. Price of	ç
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration Da	te	Amou	nt of	Derivative	J
Security	or Exercise		any	Code	of	(Month/Day/Y	(ear)	Under	lying	Security	,
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ties	(Instr. 5)]
	Derivative				Securities			(Instr.	3 and 4)		(
	Security				Acquired						J
					(A) or						J
					Disposed						-
					of (D)						(
					(Instr. 3,						
					4, and 5)						
									Amount		
									or		
					V (A) (D)	Date	Expiration Date	Title 1	Number		
						Exercisable			of		
				Code V					Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

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

08/08/2014

**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 sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on December 13, 2013.
- On August 6, 2013, the Reporting Person received a grant of restricted stock units ("RSUs") covering 13,350 shares of KLA-Tencor common stock. On August 6, 2014, the Reporting Person vested in twenty-five percent (25%) of such RSUs.
- Pursuant to the terms of the August 6, 2013 RSU grant, 1,742 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax 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.

Reporting Owners 2

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Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made

(5) 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. 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.