KLA TENCOR CORP

Check this box

if no longer

subject to

Section 16.

Form 4 or

Form 5

Form 4

February 08, 2017

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

Number:

3235-0287

Expires:

Form filed by More than One Reporting

January 31, 2005

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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

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Kirk Michael Issuer Symbol KLA TENCOR CORP [KLAC] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner Other (specify X_ Officer (give title C/O KLA-TENCOR 02/06/2017 below) CORPORATION, ONE **Executive Vice President TECHNOLOGY DRIVE** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person

MILPITAS, CA 95035

(State)

(Zip)

(City)

(3)

Table I. Non Darivative Securities Acquired Disposed of ar Reposicially Ov

(- 3)	(******)	1 able	I - Non-L	<i>y</i> eı	rivative S	ecurit	ies Acc	juirea, Disposea (or, or Beneficial	lly Ownea
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transact Code (Instr. 8)	1 '		5. Amount of Securities Beneficially Owned Following Reported	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
			Code V	V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock	02/06/2017		M		6,250 (1)	A	\$0	6,695	D	
Common Stock	02/06/2017		F		2,400 (2)	D	\$ 87	4,295	D	
Common Stock - Restricted Stock Units								86,606	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., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration D	ate	Amou	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A mannt		
									Amount		
						Date	Expiration	Title	or Number		
						Exercisable	Date	Title	of		
				Code V	(A) (D)				Shares		
				Code v	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships
Reporting Owner Maine / Address	

Director 10% Owner Officer Other

Kirk Michael
C/O KLA-TENCOR CORPORATION
ONE TECHNOLOGY DRIVE
MILPITAS, CA 95035

Executive
Vice
President

Signatures

/s/ Teri A. Little as Attorney-in-Fact for Michael
Kirk
02/07/2017

**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).
- On February 6, 2013, the Reporting Person received a grant of RSUs covering 25,000 shares of KLA-Tencor common stock. On February 6, 2017, the Reporting Person vested in twenty-five percent (25%) of such RSUs.
- Pursuant to such terms of the February 6, 2013 RSU grant, 2,400 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 vesting date.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock. Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made

Reporting Owners 2

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regarding the achievement of the applicable performance goals.

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.