FORM 4	4
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	1
Check this box if no	
longer subject to	
Section 16. Form 4 or	•
Form 5 obligations	
may continue. See	
Instruction 1(b).	

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 Per Higashi Emiko	2. Issuer Name an KLA TENCOR			0.	ool		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) C/O KLA-TENCOR CORPOR TECHNOLOGY DRIVE	3. Date of Earliest 7 11/02/2016	Fransaction	ı (Mo	nth/Day/Y	(ear)	Officer (give title below)	Other (specify b	pelow)			
(Street) MILPITAS, CA 95035		4. If Amendment, I	Date Origin	al Fil	ed(Month/D	ay/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting PersonForm filed by More than One Reporting Person				
(City) (State)	(Zip)	Tat	ole I - Non-	Deri	vative Se	curities	Acqu	uired, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if	Code (Instr. 8)	tion	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Beneficial Ownership	
			Code	v	Amount	Amount (A) or (D) Price			or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Stock - Restricted Stock Units (1)	11/02/2016		А		2,141 (2) A \$0		\$ 0	4,535	D		
Common Stock								11,694	D		

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

Persons who respond to the collection of information

SEC 1474 (9-02)

contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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

(<i>e.g.</i> , 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	Transaction	n N	Number and Expiration Date		Amount of Deri		Derivative	Derivative	Ownership	of Indirect		
Security	or Exercise	(Month/Day/Year)	any	Code	of			(Month/Day	/Year)	Underlying Security		Securities	Form of	Beneficial	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	D	Derivative		Securities (Instr. 5		(Instr. 5)	Beneficially	Derivative	Ownership		
	Derivative				Se	Securities		(Instr. 3 and			Owned	Security:	(Instr. 4)		
	Security				A	cquir	ed			4)			Following	Direct (D)	
					(A	A) or							Reported	or Indirect	
					D	ispos	ed						Transaction(s)	(I)	
					of	of (D)					(Instr. 4)	(Instr. 4)			
							ıstr. 3,								
					4,	and	nd 5)								
											Amount				
								Dete	E		or				
									Expiration	Title	Number				
								Exercisable	Date		of				
				Code V	' (<i>1</i>	A) ((D)				Shares				

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
Higashi Emiko C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	Х						

Signatures

Teri A. Little as Attorney-in-Fact for Emiko Higashi	11/03/2016
**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) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- Represents a grant of RSUs that, pursuant to KLA-Tencor's outside director compensation program, was automatically granted to the Reporting Person on the date of KLA-(2) Tencor's annual meeting of stockholders with respect to the Reporting Person's service on the Board of Directors for the upcoming year. The RSUs will fully vest one year from date of grant and will be deliverable on such date.

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.