FORM	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).	

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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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. Name and Address of Reporting Pe Higashi Emiko	2. Issuer Name an KLA TENCOR			<i>.</i>	ool	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) 				
(Last) (First) C/O KLA-TENCOR CORPOR TECHNOLOGY DRIVE	3. Date of Earliest 7 11/01/2017	ransaction	(Mo	nth/Day/Y	ear)	Officer (give title below)	Other (specify b	pelow)		
(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 PersonForm filed by More than One Reporting Person			
(City) (State)	(Zip)	Table I - Non-Derivative Securities Acquired, 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)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) 6. 7. N. Ownership of In Form: Bene Direct (D) Own or Indirect (Inst		
			Code	V	Amount	(A) or (D)	Price		(I) (Instr. 4)	(Instr. 4)
Common Stock	11/01/2017		S		500 <mark>(1)</mark>	D	\$ 110	13,588	D	
Common Stock - Restricted Stock Units ⁽²⁾	11/01/2017		А		1,902 (<u>3)</u>	А	\$ 0	4,043	D	
Common Stock - Restricted Stock Units ⁽²⁾	11/02/2017		М		2,141	D	\$ 0	1,902	D	
Common Stock	11/01/2017		М		2,141	А	\$0	15,729	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

	(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	Transacti	ion	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	ities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Secur	rities			(Instr	. 3 and		Owned	Security:	(Instr. 4)
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) o	r						Reported	or Indirect	
						Dispo	osed						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			
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

**Signature of Reporting Person

11/02/2017 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. 78 ff(a).
- (1) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on August 1, 2017.
- (2) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (3) Award vests on the earliest to occur of the next annual meeting of stockholders, the one year anniversary of the grant date and 10 days prior to a change of control.

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.