FORM 4

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

OMB APPROVAL
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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).

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 Ty	pe Response	s)														
1. Name and Address of Reporting Person* Higashi Emiko				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
C/O I/I A TENICOD CODDOD ATION ONE			3. Date of Earliest Transaction (Month/Day/Year) 01/25/2018						Office	r (give title belo	ow)	Other (specify b	elow)			
(Street)				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						
	AS, CA 95															
(City)	(State)	(Zip)		Ta	able I	- Non-	-Deriv	vative S	Securities	Acqu	ired, Dispo	osed of, or I	Beneficially	Owned	
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5))	Beneficial	t of Securities ly Owned Following Fransaction(s) nd 4)		\ /	Beneficial Ownership			
						C	ode	V	Amour	(A) or (D)	Price				or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock		01/25/2018			S			1,775 (1)		\$ 120	9,519			D		
Common Stock - Restricted Stock Units (2)										1,902			D			
Reminder:	Report on a s	separate line for	each class of securi	ties benefici	ally ov	wned o	F	Perso conta	ns wh	o respon	m are	e not requ		ormation spond unle trol numbe	ss	1474 (9-02)
				Derivative Sec.g., puts, ca								lly Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Exercise (Month/Day/Year) rice of erivative		ned 4. Transaction Code Day/Year) (Instr. 8)		5.		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. T Am Und Seco	ritle and ount of derlying urities tr. 3 and		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownersl Form of Derivati Security Direct (I or Indire	Beneficial Ownershij (Instr. 4)
				Code	V	(A)		Date Exerc		Expiration Date	Title	Amount or Number of 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	X					

Signatures

Teri A. Little as Attorney-in-Fact for Emiko Higashi	01/26/2018	

**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 August 1, 2017.
- (2) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.

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.