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)																		
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)XDirector10% Owner						
	^		PRATION, ONE		ate of Ear 02/2018		t Trans	sactio	on (N	Month/Day	y/Year)		-	Office	r (give title belo	ow)	Other (s	pecify belo	ow)	
MII PITA	AS, CA 95	(Street)		4. If	Amendm	ent,	, Date (Origi	nal l	Filed(Mont	h/Day/Ye	ar)		X_Form fil	ed by One Repo	Group Filing orting Person or One Reporting		Applicable	Line)	
(City	· ·	(State)	(Zip)			T	able I	- Noi	n-De	erivative	Securit	ies A	cquir	ed, Dispo	osed of, or I	Beneficially	Owne	d		
1.Title of S (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year)	any	tion Date				tion	4. Securi or Dispo (Instr. 3,	sed of ((D)	d (A)	Benefici Reported	int of Securi fally Owned d Transactio	Following	Form	ership of B	Nature f Indirect eneficial	
				(Mont	h/Day/Ye	ar)	Cod	e	V	Amount	(A) or (D)	Pri	ice	(Instr. 3	and 4)		Oirector Ind (I) (Instr.	lirect (I	wnership nstr. 4)	
Common Stock		12/11/2017				G		V	98	D	D \$0		15,131			D				
Common Stock		12/14/2017				G		V	962	D	\$ 0		14,169	4,169		D				
Common Stock		01/02/2018				S			500 (1) D \$ 10.		\$ 105.	.843	13,669		D					
Common Stock - Restricted Stock Units (2)												1,902				D				
Reminder:	Report on a s	separate line	for each class of sec						Per cor the	rsons wh	no responders n this splays	form a cu	are i	not requ tly valid	OMB conf	formation spond unle trol numbe		SEC 14	74 (9-02)	
		1	Table II							is, conver				Ownea		•				
1. Title of Derivative Security (Instr. 3) 1. Title of 2. Conversion or Exercise Price of Derivative Security			Execution I any	ate, if	, if Transaction Code ear) (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		and (M	6. Date Exercisab and Expiration Da (Month/Day/Year		Oate Amo Und Secu		. 3 and		9. Number Derivative Securities Beneficiall Owned Following Reported Transaction (Instr. 4)	y Do See Di or	wnership orm of erivative ecurity: irect (D) Indirect	Beneficia Ownershi (Instr. 4)	
					Code	V	(A)	(D)	Da Ex	ite ercisable	Expira Date	tion ,	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	01/03/2018	8
**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.