FORM 4

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

OMB APPROVAL						
OMB Number:	3235-0287					
Estimated average burden						
nours per response	e 0.5					

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) X Director 10% Owner						
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 11/03/2011							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						
MILPITAS, CA 95035 (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)		2A. Deemed Execution Date, if		3. Transacti Code (Instr. 8)				quired of	5. Amoun Beneficial	at of Securities lly Owned Following Transaction(s)		6. Ownership Form: Direct (D)	Beneficial Ownership			
						C	ode	V	Amou	(A) or (D)	Price				or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock Un	Stock - R	estricted	11/03/2011				A		2,539 (2)	A	\$ 0	2,539			D	
Common	Common Stock										2,772			D		
Reminder:	Report on a s	eparate line for	r each class of securi	Derivative	e Securit	ies Ac	quire	Personta conta the fo	ons whained in orm dis	no responding this for splays a	rm are curre	not requesting ntly valid		ormation spond unlestrol number	ss	1474 (9-02)
1. Title of	2	3. Transaction		2.g., puts, 4.	, calls, wa	arran 5.				tible secu	T	itle and	9 Dries of	9. Number o	f 10.	11. Natu
	Conversion or Exercise Price of Derivative Security	Date (Month/Day/Y	Date Executio (Month/Day/Year)	Execution Dat Year) any	te, if Transaction Code (Instr. 8)		Number an		6. Date Exercisable and Expiration Date (Month/Day/Year)		Amo Und Secu	ount of lerlying urities tr. 3 and	unt of brivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownersh Form of Derivati Security Direct (I or Indire	of Indire Benefici Ownersh (Instr. 4)
				Co	ode V	(A)	(D)	Date Exerc		Expiration Date	n 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

Brian M. Martin as Attorney-in-Fact for Emiko Higashi	11/04/2011
-**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.
- (2) The restricted stock units 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.