# 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 * KENNEDY KEVIN				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) 11/05/2014						Office	r (give title belo	ow)	Other (specify l	pelow)	
(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												
(Instr. 3) Date		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date r) any (Month/Day/Ye		3. Transac Code (Instr. 8)		4. Securities Acq (A) or Disposed o (D) (Instr. 3, 4 and 5)		quired of	5. Amoun Beneficia	ant of Securities ally Owned Following d Transaction(s)		6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	V	Amou	(A) or (D)	Price	:			(I) (Instr. 4)	
Common Stock - Restricted Stock Units (1)		estricted	11/05/2014			A		1,969	A	\$ 0	3,825		D		
Common Stock									18,825				I	By Trust (3)	
Reminder:	Report on a s	separate line for	each class of secur	ities benefici	ally ov	wned dire	<b>-</b> -		•	nd to	the collec	ction of inf	formation	SEC	1474 (9-02)
													spond unle trol numbe		
				Derivative So e.g., puts, ca											
Derivative Conversion Date Exec Security or Exercise (Month/Day/Year) any		3A. Deemed Execution Date (ear) any	Code (Instr. 8)		5.	6. I and (M	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. T Am Und Sec	Citle and count of derlying urities str. 3 and	8. Price of Derivative Security (Instr. 5)		Owners Form of Derivate Security Direct ( or Indire	Ownership (Instr. 4)  Output  Output	
				Code	V	(A) (D		e ercisable	Expiration Date	on Titl	Amount or Number of Shares				

### **Reporting Owners**

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

## **Signatures**

Brian M. Martin as Attorney-In-Fact for Kevin J. Kennedy

11/05/2014

***************************************	Date
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.
- (3) By the Kennedy Family Trust U/A/D 11/19/98, of which the Reporting Person is a trustee and beneficiary.

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.