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

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SEC 1474 (9-02)

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 Per KENNEDY KEVIN	2. Issuer Name an KLA TENCOR			. .	bol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) C/O KLA-TENCOR CORPOR TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 11/15/2007						Officer (give title below)	Other (specify b	elow)	
(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 Person Form filed by More than One Reporting Person			
(City) (State)	Tat	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)	Date (Month/Day/Year)	Execution Date, if	Code (Instr. 8)		(A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Direct (D) or Indirect	Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price		(I) (Instr. 4)	
Common Stock - Restricted Stock Units (1)	11/15/2007		А		2,036	А	\$ 0 (2)	2,475	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 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	i.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	n N	Number and Expiration Date Ar		Amount of Derivati		Derivative	Derivative	Ownership	of Indirect		
Security	or Exercise	(Month/Day/Year)	any	Code	0	f (Month/Day/Year) U		Underlying Sec		Security	Securities	Form of	Beneficial		
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Γ	Deriva	ative			Securities (Inst		(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				S	Securi	ties (J		(Instr. 3 and			Owned	Security:	(Instr. 4)	
	Security				Α	Acqui	red			4)			Following	Direct (D)	
						A) or							T T	or Indirect	
					Γ	Dispos	sed						Transaction(s)	(I)	
					0	of (D)							(Instr. 4)	(Instr. 4)	
					· ·		ıstr. 3,								
					4	, and	5)								
											Amount				
								Dete	E		or				
								Date Exercisable	Expiration	Title	Number				
								Exercisable	Date		of				
				Code V	/ ((A)	(D)				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	Х						

Signatures

Brian M. Martin as Attorney-in-Fact for Kevin J. Kennedy	11/19/2007
**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 represents a contingent right to receive one share of KLAC 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.