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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

#### 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 Person       2. Issuer Name and Ticker or Trading Symbol         KENNEDY KEVIN       KLA TENCOR CORP [KLAC]						5. Relationship of Reporting Perso (Check all appli _X_ Director	cable) 10% Owner					
(Last) (First) C/O KLA-TENCOR CORPOL TECHNOLOGY DRIVE	(Middle) RATION, ONE	3. Date of Earliest 07/05/2017	Transactic	on (M	[onth/Day	/Year)						
(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)	(Zip)	Ta	ble I - No	n-Dei	rivative S	ecurit	ties Acqui	uired, Disposed of, or Beneficially Owned				
1.Title of Security (Instr. 3)	Date (Month/Day/Year)	any	xecution Date, if Code (A) ny (Instr. 8) (Instr. 8)		4. Securi (A) or D (Instr. 3,	ispose	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Form:	7. Nature of Indirect Beneficial		
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) Ownership or Indirect (Instr. 4) (I) (Instr. 4)			
Common Stock	07/05/2017		S		2,136 (1)	D	\$ 91.213 (2)	14,189	Ι	By Trust (3)		
Common Stock	07/05/2017		S		364 <u>(1)</u>	D	\$ 92.014 (4)	13,825	Ι	By Trust ( <u>3)</u>		
Common Stock								6,219	D			
Common Stock - Restricted Stock Units <sup>(5)</sup>								2,141	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

SEC 1474 (9-02)

the form displays a currently valid OMB control number.

### Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

			(e.g., ]	outs, call	s, w	arran	ts, op	ptions, convertible securities)			-						
1. Title of	2.	3. Transaction	3A. Deemed	4.		5.		5.		6. Date Exercisable 7		7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transact	ion	Num	ber	and Expirati	on Date	Amo	unt of	Derivative	Derivative	Ownership	of Indirect		
Security	or Exercise	(Month/Day/Year)	any	Code		of ( Derivative Securities				Unde	rlying	Security	Securities	Form of	Beneficial		
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)						Secur	rities	(Instr. 5)	Beneficially	Derivative	Ownership		
	Derivative									Securities		(Instr. 3 ar		. 3 and		Owned	Security:
	Security					Acqu	ired		4)				0	Direct (D)			
						(A) o				Amount			1	or Indirect			
						Dispo							Transaction(s)	< / <			
						of (D	· · · · · · · · · · · · · · · · · · ·						(Instr. 4)	(Instr. 4)			
						(Instr	· · · ·										
						4, and	15)										
								Date	Expiration		or						
								Exercisable		Title	Number						
								Excicisable	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

Teri A. Little as Attorney-in-Fact for Kevin J. Ken	enneo	. K	J.	vin	Ke	or ]	Fact f	v-in-	orne	Atto	as	Little	A.	Teri	l
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\*\*Signature of Reporting Person

07/06/2017 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 March 8, 2017.
- (2) Represents the weighted average sales price for the shares. The sales prices ranged from \$90.79 to \$91.71. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- (3) By the Kennedy Family Trust U/A/D 11/19/98, of which the Reporting Person is a trustee and beneficiary.
- (4) Represents the weighted average sales price for the shares. The sales prices ranged from \$91.80 to \$92.24. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- (5) 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.