FORM 4	4
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Check this box if no	Ī
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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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

1. Name and Address of Reporting Per Higgins Bren D.	2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner			
(Last) (First) C/O KLA-TENCOR CORPOR TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 11/11/2016						X_Officer (give title below) Other (specify below) EVP & Chief Financial Officer			
(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)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security 2. Transaction (Instr. 3) Date (Month/Day/Year		Execution Date, if	Code (A) or Disposed of (D)			sposed	of (D)	Beneficially Owned Following	1	
		(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock - Restricted Stock Units (1)	11/11/2016		А		30,109 (2) A \$0		\$ 0	76,576 (<u>3)</u>	D	
Common Stock						4,610	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

SEC 1474 (9-02)

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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.		6. Date E	kercisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transaction	n Nu	umber	and Expir	ation Date	Amo	unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	of	•	(Month/E	ay/Year)	Unde	rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	De	erivativ	re		Secu	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				Se	curitie	s		(Instr	: 3 and		Owned	Security:	(Instr. 4)
	Security				Ac	cquired	L		4)			Following	Direct (D)	
					(A) or						Reported	or Indirect	
					Di	isposed	L					Transaction(s)	(I)	
					of	(D)						(Instr. 4)	(Instr. 4)	
					(Ir	(Instr. 3,								
					4,	and 5)	and 5)							
										Amount				
							D.	F · · ·		or				
							Date	Expiration	Title N	Number				
							Exercisat	le Date		of				
				Code V	(A	A) (E)			Shares				

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Higgins Bren D. C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			EVP & Chief Financial Officer					

Signatures

Teri A. Little as Attorney-in-Fact for Bren D. Higgins	11/11/2016
**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) On November 11, 2016, the Reporting Person was granted RSUs for 30,109 shares of KLA-Tencor common stock which vest 25% annually beginning November 11, 2017, subject to continued service on each vesting date.
- (3) Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made regarding the achievement of the applicable performance goals. Any such holdings will be reported on a Form 4 within two business days of the date such assessment is made.

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.