FORM 4	ŀ
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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

(Print or Type Responses)											
1. Name and Address of Reporting Po Higgins Bren D.	2. Issuer Name ar KLA TENCOR				bol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) C/O KLA-TENCOR CORPOI TECHNOLOGY DRIVE	3. Date of Earliest 7 08/08/2017	Transactior	n (Mo	onth/Day/	Year)		X_Officer (give title below) EVP & Chief Financ	Other (specify b cial Officer	pelow)		
(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 (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if any			4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		l of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership of Ind	Beneficia	
		(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownershi (Instr. 4)	
Common Stock	08/08/2017		S		1,093 (<u>1)</u>	D	\$ 91.99	854	D		
Common Stock - Restricted Stock Units (2)								65,801 (<u>3)</u>	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)

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			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 Expirati	on Date	Date Amount of		Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	0	of		(Month/Day/Year)		Underlying		Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Ľ	Derivative		· · · ·		Securities		(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				S	Securities			(Instr. 3 and			Owned	Security:	(Instr. 4)	
	Security				A	Acquired			4)			Following	Direct (D)		
					(A) or							1	or Indirect		
					Disposed		sed					Transaction(s)	(I)		
					of (D)								(Instr. 4)	(Instr. 4)	
					· ·	(Instr. 3,									
					4	4, and 5)									
											Amount				
								Date	Expiration		or				
								Exercisable	*	Title	Number				
								Exercisable	Date		of				
				Code V	/ ((A)	(D)				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	08/10/2017	

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 May 8, 2017.
- (2) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (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.