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 I Martin Brian	2. Issuer Name and KLA TENCOR				ıbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner			
(Last) (First) C/O KLA-TENCOR CORPO TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 08/05/2015							Other (specify b	pelow)	
(Street) MILPITAS, CA 95035	4. If Amendment, Date Original Filed(Month/Day/Year) 08/07/2015						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 Acqu						ired, Disposed of, or Beneficially Owned		
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any	Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	Beneficially Owned Following Reported Transaction(s)	Ownership of Indire Form: Benefic	7. Nature of Indirect Beneficial
		(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownershij (Instr. 4)
Common Stock	08/05/2015		S <mark>(1)</mark>		4,494	D	\$ 52.24	1,839	D	
Common Stock - Restricted Stock Units ⁽²⁾								13,862 (3)	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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the form displays a currently valid OMB control number.

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

(<i>e.g.</i> , 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	Jumb	ber and Expiration Date		and Expiration Date		and Expiration Date Amoun		unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	0	of		(Month/Day/Year)		(Month/Day/Year) Underlying		rlying	Security	Securities	Form of	Beneficial	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Ľ	Deriva	ative	e		Securities		(Instr. 5)	Beneficially	Derivative	Ownership		
	Derivative					Securi				(Instr	: 3 and			Security:	(Instr. 4)		
	Security				A	Acqui	red			4)			0	Direct (D)			
					· ·	A) or							1	or Indirect			
						Dispo							Transaction(s)				
						of(D)							(Instr. 4)	(Instr. 4)			
					· ·	Instr.	· · ·										
					4	, and	5)										
											Amount						
								Date	Expiration		or						
								Exercisable	*	Title	Number						
								LACICISADIC	Date		of						
				Code V	/ ((A)	(D)				Shares						

Reporting Owners

		Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
Martin Brian C/O KLA-TENCOR CORPORATIO ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	DN		Executive VP & General Counsel						

Signatures

Brian M. Martin	08/10/2015
**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) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on March 11, 2015.
- (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.

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