FORM 4	4
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	1
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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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)		r								
1. Name and Address of Reporting P Bell Bobby R	2. Issuer Name a KLA TENCOI			0,	nbol	:	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 08/03/2017	Transacti	on (N	1onth/Day	/Year)	[X Officer (give title below) Other (specify below) Executive Vice President Image: Comparison of the president			
(Street) MILPITAS, CA 95035	4. If Amendment,	Date Orig	inal F	Filed(Month	/Day/Yea		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)	Τε	ıble I - No	n-De	rivative S	ecuriti	red, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)	Date (Month/Day/Year)	2A. Deemed Execution Date, if any			4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Of Indir Benefic	Beneficial
		(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	07/03/2017		J	V	314 (1)	А	\$ 67.499	314.917	D	
Common Stock - Restricted Stock Units ⁽²⁾	08/03/2017		А		10,006	А	\$ 0	96,612 (3)	D	

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

SEC 1474 (9-02)

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		on Date Amount of		Derivative	Derivative	Ownership	of Indirect		
Security	or Exercise	(Month/Day/Year)	any	Code	0	of	f (Month/Day/Year) U		Underlying		Security	Securities	Form of	Beneficial	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Ľ	Deriva	ative			Securities ((Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Securi		ies ((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				
Bell Bobby R C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			Executive Vice President					

Signatures

/s/ Teri A. Little as Attorney-In-Fact for Bobby R. Bell	08/04/2017
**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) Represents shares acquired under the KLA-Tencor Corporation Amended and Restated 1997 Employee Stock Purchase Plan.
- (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.