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 Reportin Bell Bobby R	2. Issuer Name KLA TENCO				mbol	4	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner			
(Last)(First)(Middle)C/O KLA-TENCOR CORPORATION, ONE3. Date of Earliest Transaction (Mont 08/26/2011TECHNOLOGY DRIVE						onth/Day/Year) X_Officer (give title below) Other (specify be Executive Vice President				
(Street) MILPITAS, CA 95035	4. If Amendment	, Date Orig	inal I	Filed(Month	n/Day/Y		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)			0		4 and (A) or	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Form:	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock	08/26/2011		S		10,000	D	\$ 35.4228 (1)	26,838	D	
Common Stock - Restricted Stock Units ⁽²⁾	1							96,158 (<u>3)</u>	D	

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

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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.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	on	Numł	ber	and Expiration	on Date	Amo	unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code		of		(Month/Day	/Year)	Unde	rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	ative			Secur	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Secur	ities			(Instr	. 3 and		Owned	Security:	(Instr. 4)
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) o	ŗ						Reported	or Indirect	
					Disposed							Transaction(s)	(I)		
					of (D)							(Instr. 4)	(Instr. 4)		
					(Instr. 3,										
					4, and 5)										
											Amount				
								Date	Expiration		or				
								Exercisable		Title	Number				
								Excicisable	Date		of				
				Code	V	(A)	(D)				Shares				

Reporting Owners

	Relationships							
Reporting Owner Name / Address		10% Owner	Officer	Other				
Bell Bobby R C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			Executive Vice President					

Signatures

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).
- This transaction was executed in multiple trades at prices ranging from \$35.42 to \$35.44. The price reported above reflects the weighted average purchase price. The (1) Reporting Person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer, full information regarding the number of shares and prices at which the transaction was effected.
- (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 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.