FORM	4
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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)											
1. Name and Address of Reporting Pe Bell Bobby R	2. Issuer Name an KLA TENCOR				ibol		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 11/15/2011	Transaction	n (Mo	onth/Day/	Year)	X Officer (give title below) Other (specify below) Executive Vice President Image: Comparison of the president Image: Comparison of the president					
(Street) MILPITAS, CA 95035	4. If Amendment, I	Date Origir	nal Fi	led(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)			Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Ben	Beneficial	
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	~ /	Ownership (Instr. 4)	
Common Stock	11/15/2011		А		10,458	А	<u>(1)</u>	32,810	D		
Common Stock	11/15/2011		F		4,882 (2)	D	\$ 48.42	27,928	D		
Common Stock	11/17/2011		S <mark>(3)</mark>		1,394	D	\$ 47.3	26,534	D		
Common Stock - Restricted Stock Units ⁽⁴⁾								85,700 ⁽⁵⁾	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

	(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	on Number		ber	and Expiration Date		Amount of		Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	of		(Month/Day	/Year) Underlying		Security	Securities	Form of	Beneficial		
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Derivative		Securities		(Instr. 5)	Beneficially	Derivative	Ownership		
	Derivative					Securities				(Instr. 3 and			Owned	Security:	(Instr. 4)
	Security					Acqui	ired			4)			0	Direct (D)	
					(A) or						1	or Indirect			
				Disposed								Transaction(s)	· /		
					of (D)								(Instr. 4)	(Instr. 4)	
					(Instr. 3,										
					4, and 5)										
											Amount				
								Date	Evaination		or				
								Exercisable	Expiration Date	Title	Number				
								Excicisable	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

**Signature of Reporting Person

11/17/2011

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).
- On November 15, 2007, Mr. Bell received a grant of performance-based restricted stock units ("RSUs") that, following the completion of fiscal year 2008, were determined
 (1) by the Compensation Committee of KLA-Tencor's Board of Directors (in August 2008) to cover, based on KLA-Tencor's financial performance during fiscal year 2008, 20,917 shares of KLA-Tencor common stock. On November 15, 2011, Mr. Bell vested in the remaining fifty percent (50%) of such RSUs.
- Pursuant to the terms of the November 15, 2007 performance-based RSU grant, 4,882 shares of KLA-Tencor common stock were automatically withheld at vesting to cover (2) required tax withholding. The fair market value of KLA-Tencor common stock used for purposes of calculating the number of shares to be withheld was the closing price of KLA-Tencor common stock as reported on the NASDAQ Stock Market on such vesting date.
- (3) This sale was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 1, 2011.
- (4) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (5) 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.

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