FORM 4	4
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Check this box if no	
longer subject to	
Section 16. Form 4 or	r
Form 5 obligations	
may continue. See	
Instruction 1(b).	

(Drint or Type Decoord

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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											
1. Name and Address of Reporting Pe WALLACE RICHARD P	2. Issuer Name and KLA TENCOR			0.	ıbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) C/O KLA-TENCOR CORPOR TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 01/18/2012						X_Officer (give title below) Other (specify below) President and CEO						
(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)	(City) (State) (Zip) Table I - Non-						ative Securities Acquired, Disposed of, or Beneficially Owned						
1.Title of Security 2. Transaction (Instr. 3) Date (Month/Day)		Execution Date, if any	f Code (Instr. 8)		A. 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 of Indir Form: 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	01/18/2012		S <mark>(1)</mark>		16,662	D	\$ 49.75	117,735	D				
Common Stock - Restricted Stock Units ⁽²⁾								201,400 (3)	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	Transactic	n 1	Numł	ber	and Expirati	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			Secu	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				:	Secur	ities			(Instr	: 3 and		Owned	Security:	(Instr. 4)
	Security					Acqu	ired			4)			0	Direct (D)	
						(A) 01							1	or Indirect	
						Dispc							Transaction(s)	· /	
						of (D)							(Instr. 4)	(Instr. 4)	
						(Instr	· · · ·								
					4	4, and	l 5)								
											Amount				
								Date	Emination		or				
								Exercisable	Expiration	Title	Number				
								Exercisable	Date		of				
				Code V	V	(A)	(D)				Shares				

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
WALLACE RICHARD P C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	Х		President and CEO					

Signatures

Brian M. Martin as Attorney-in-Fact for Richard P. Wallace	01/20/2012		
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 transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on December 15, 2009, as modified on December 14, 2010.
- (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.