FORM 4

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

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

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

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 Ty	pe Response	s)		1											
1. Name and Address of Reporting Person* WALLACE RICHARD P				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) _X_ Director10% Owner					
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 03/03/2014						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) Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City) (State) (Zip)			Table I - Non-Derivative Securities Acqui						ired, Disposed of, or Beneficially Owned						
(Instr. 3) Date		2. Transaction Date (Month/Day/Year)	Execut		Code (Instr. 8)		on 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)			Form:	7. Nature of Indirect Beneficial		
			(Month/Day/Year)		Code	V	Amount	(A) or (D)	Price	(Instr. 3	3 and 4)		Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
Common Stock		03/03/2014			S ⁽¹⁾		20,000	D	\$ 64.17 (2)	20,527		I	By Trust		
Common Stock										504		D			
Common Stock - Restricted Stock Units (4)										186,725 ⁽⁵⁾		D			
Reminder:	Report on a s	separate line fo	or each class of secu	rities be	eneficially ov	vned direc	Pers	sons wh	o resp	orm are	not requ	ction of inf uired to res	spond unle	ess	1474 (9-02)
					tive Securiti	_		-	-		ly Owned				
1. Title of Derivative Security (Instr. 3)	Conversion Date		ransaction 3A. Deemed		4. Transaction Code (Instr. 8)	5.		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Ta Amo Und Secu	itle and bount of lerlying urities tr. 3 and	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Owners Form o Derivat Security Direct (or Indir	Beneficia Ownershi (Instr. 4) D) ect
					Code V	(A) (D)			Expirat Date	ion Title	Amount or Number of 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	X		President and CEO			

Signatures

Brian M. Martin as Attorney-in-Fact for Richard P. Wallace		03/05/2014		
**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 December 13, 2013.
- This transaction was executed in multiple trades at prices ranging from \$63.90 to \$64.79. The price reported above reflects the weighted-average sales price. The Reporting (2) 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.
- (3) Shares held under the Wallace Living Trust u/a/d 03/27/01, as amended, a trust of which the Reporting Person is a trustee and beneficiary.
- (4) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- 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.