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).

(Print or Type Pesponses)

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								
1. Name and Address of Reporting Po 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) 			
(Last) (First) C/O KLA-TENCOR CORPO TECHNOLOGY DRIVE	3. Date of Earliest Transaction (Month/Day/Year) 08/15/2014						X_Officer (give title below) Other (specify below) President and CEO			
(Street) MILPITAS, CA 95035		4. If Amendment, Date Original Filed(Month/Day/Year)					ır)	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								
(Instr. 3) Date			Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		l of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form:	Beneficial
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	· · ·	Ownership (Instr. 4)
Common Stock	08/15/2014		S <u>(1)</u>		27,257	D	\$ 73.71 (2)	8,784	I	By Trust (3)
Common Stock	08/15/2014		S ⁽¹⁾		500	D	\$ 74.36 (4)	8,284	Ι	By Trust (3)
Common Stock								11,376	D	
Common Stock - Restricted Stock Units ⁽⁵⁾								155,025 (6)	D	

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

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SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities) 1. Title of 6. Date Exercisable 7. Title and 8. Price of 9. Number of 3. Transaction 3A. Deemed 10. 11. Nature 2 Derivative Conversion Date Execution Date, if Transaction Number and Expiration Date Amount of Derivative Derivative Ownership of Indirect (Month/Day/Year) or Exercise (Month/Day/Year) Underlying Security Form of Beneficial Security Code Securities any of (Month/Day/Year) (Instr. 3) Price of (Instr. 8) Derivative Securities (Instr. 5) Beneficially Derivative Ownership Derivative Securities (Instr. 3 and Owned Security: (Instr. 4) Acquired Following Direct (D) Security 4) (A) or Reported or Indirect Disposed Transaction(s) (I) of (D) (Instr. 4) (Instr. 4) (Instr. 3, 4, and 5) Amount or Date Expiration Title Number Exercisable Date of Code 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	08/19/2014		
**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 \$73.27 to \$74.26. 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.
- This transaction was executed in multiple trades at prices ranging from \$74.29 to \$74.40. The price reported above reflects the weighted-average sales price. The Reporting (4) 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.
- (5) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (6) 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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