FORM 4	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).

(D..:

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 Person – WALLACE RICHARD P	2. Issuer Name an KLA TENCOR			0,0	ol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X_ Director 10% Owner			
(Last) (First) C/O KLA-TENCOR CORPORATIO TECHNOLOGY DRIVE	3. Date of Earliest T 01/25/2013	ransaction ((Mont	th/Day/Ye	ear)	X_Officer (give title below) Other (specify below) President and CEO				
(Street) MILPITAS, CA 95035		4. If Amendment, D	ate Origina	l Fileo	d(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 - N	on-D	erivative	Securit	ies Acqui	red, Disposed of, or Beneficially Ow	ned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	(Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Owned Following Reported Transaction(s)	6. Ownership Form:	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	or Indirect (D) or Indirect (I) (Instr. 4)	1
Common Stock	01/25/2013		S <u>(1)</u>		11,660	D	\$ 56.02	48,840	Ι	By Trust (2)
Common Stock	01/25/2013		М		12,500	А	\$ 51.229	61,340	Ι	By Trust (2)
Common Stock	01/25/2013		S <mark>(1)</mark>		12,500	D	\$ 56.31	48,840	Ι	By Trust (2)
Common Stock	01/25/2013		М		50,000	А	\$ 52.53	98,840	Ι	By Trust (2)
Common Stock	01/25/2013		S ⁽¹⁾		50,000	D	\$ 53.69	48,840	Ι	By Trust (2)
Common Stock - Restricted Stock Units ⁽³⁾								248,500 (4)	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 contained SEC 1474 (9-02) 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)														
Derivative Security	Conversion	Date (Month/Day/Year)		Code		5. Number 6. Date Exercisable and		cisable and 7. Title and Amount ate of Underlying Year) Securities		Derivative Security (Instr. 5)	Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form of Derivative Security: Direct (D) or Indirect (I)	Beneficial		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(Instr. 4)	
Non- Qualified Stock Option (Right to Buy)	\$ 52.53	01/25/2013		М			50,000	<u>(5)</u>	02/17/2013	Common Stock	50,000	\$ 0	0	D	
Non- Qualified Stock Option (Right to Buy)	\$ 51.229	01/25/2013		М			12,500	<u>(6)</u>	07/30/2013	Common Stock	12,500	\$ 0	0	D	

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	01/29/2013		
**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 15, 2009, as modified most recently on December 12, 2011, which plan was administratively transferred to a new broker effective November 2, 2012.
- (2) 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.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) 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.
- Represents a stock option granted on February 17, 2006, granting the Reporting Person the right to purchase up to 50,000 shares of KLA-Tencor common stock. 10,000 of the shares (5) subject to this stock option vested on the one-year anniversary of the grant date, and 1/48 of the remaining 40,000 shares subject to this stock option vested on the 13-month anniversary of the grant date and each monthly anniversary thereafter until February 17, 2011.
- Represents a stock option granted on July 30, 2003, granting the Reporting Person the right to purchase up to 12,500 shares of KLA-Tencor common stock. 2,500 of the shares subject to (6) this stock option vested on the November 8, 2003 and 1/48 of the remaining 2,600 shares subject to this stock option vested on December 8, 2003 and each monthly anniversary thereafter until November 8, 2007.

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.