FORM	4
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Check this b	oox if no
longer subje	ect to
Section 16.	Form 4 or
Form 5 obli	gations
may continu	ie. 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 Person – WALLACE RICHARD P	ŀ	2. Issuer Name and KLA TENCOR C		-			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner			
(Last) (First) C/O KLA-TENCOR CORPORATION ROBLES	T 1 CO DIO	3. Date of Earliest Transaction (Month/Day/Year) 01/27/2004						X_Officer (give title below)Other (specify below) Executive Vice President		
(Street) SAN JOSE, CA 95130	4	. If Amendment, Da	te Original F	iled(N	Month/Day/Y	'ear)	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)		Гable I - No	n-De	rivative S	ired, Disposed of, or Beneficially Own	ed			
	2. Transaction Date (Month/Day/Year)	Execution Date, if Code (A) or Disposed of (D) any (Instr. 8) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership				
Common Stock								2,279	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

	(<i>e.g.</i> , puts, calls, warrants, options, convertible securities)																
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code		5. Numbo of Deriva Securitie: Acquired or Dispos of (D) (Instr. 3, and 5)	tive s (A) sed	Expiration Date (Month/Day/Year)		Date of Underlying		of Underlying Derivativ Securities Security		Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported Transaction(s)		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)	\$ 58.10	01/27/2004		А		15,000		10/27/2004	01/27/2014	Common Stock	15,000	\$ 0	15,000	D			
Non- Qualified Stock Option (right to buy)	\$ 26.25							11/10/2001	11/10/2010	Common Stock	7,000		7,000	D			
Non- Qualified Stock Option (right to buy)	\$ 29.31							10/02/2002	10/02/2011	Common Stock	25,500		25,500	D			
Non- Qualified Stock Option (right to buy)	\$ 32.75							04/04/2002	04/04/2011	Common Stock	8,459		8,459	D			

Non- Qualified Stock Option (right to buy)	\$ 34.67			11/08/2003	01/28/2013	Common Stock	20,000	20,000	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2003	11/08/2012	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option (right to buy)	\$ 40.14			05/22/2004	05/22/2013	Common Stock	1,000	1,000	D	
Non- Qualified Stock Option (right to buy)	\$ 44.6875			08/13/2000	08/13/2010	Common Stock	19,169	19,169	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	12,500	12,500	D	
Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	30,000	30,000	D	

Reporting Owners

		Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other						
WALLACE RICHARD P C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			Executive Vice President							

Signatures

By: Stuart J. Nichols For: Richard P. Wallace	01/28/2004	
**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).

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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