FORM 4

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

OMB APPROVAL
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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).

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. Name and Address of Reporting Person* WALLACE RICHARD P				2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]								5	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 02/01/2017									X Officer (give title below) Other (specify below) President and CEO						
(Street)				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							
MILPITAS, CA 95035 (City) (State) (Zip)					Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned														
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Exect	A. Deemed Execution Date, if ny Month/Day/Year)		Code (Instr. 8)		tion 4. Securities Acqu (A) or Disposed o (Instr. 3, 4 and 5)		of (I	f (D) Benefic		unt of Securities cially Owned Following ed Transaction(s) 8 and 4)		6. Ownersh Form: Direct (E or Indirec	p of Be Ov	7. Nature of Indirect Beneficial Ownership		
							Co	ode	V	Amoun	or	Pric	ce	,			(I) (Instr. 4)		su. 4)
Common Stock		02/01/2017				,	S		19,563 (1)	ן ען	\$ 85.4 (2)	193	56,382			D			
Common Stock		02/01/2017			5	S		18,980 (1)	ן ען	\$ 85.4 (3)	141	37,402			D				
Common Stock												9,182		I	By (4)	Trust			
Common Stock - Restricted Stock Units (5)													216,804	1		D			
Reminder:	Report on a s	separate line fo	or each class of secu	rities b	eneficia	lly ov	wned		Pers	ons wh	no resp	orm	are	not requ	ction of inf iired to res	spond unle	ess	C 147	74 (9-02)
			Table II -											y Owned					
Security (Instr. 3)	ive Conversion or Exercise (Month/Day/Year) Execution Date, if Code Number of Exercise (Month/Day/Year)		per rative rities ired rosed) . 3,	6. Date Exercisable and Expiration Date (Month/Day/Year) Comparison of the comparis			Amou Jnder Jnder Jnstr.	ount of derlying urities tr. 3 and Derivative Security (Instr. 5)		9. Number Derivative Securities Beneficiall Owned Following Reported Transaction (Instr. 4)	Owner Form Deriv Secur Direct or Inc	of ative ity:	11. Natur of Indirec Beneficia Ownershi (Instr. 4)						
					Code	V	(A)	(D)	Date		Expirati Date	on T	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

Teri Little as Attorney-in-Fact for Richard P. Wallace	02/02/2017		
**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) Sold under a Rule 10b5-1 sales plan adopted as of December 5, 2016.

business days of the date such assessment is made.

- (2) Represents the weighted average sales price for the shares. The sales prices ranged from \$85.43 to \$85.69. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- (3) Represents the weighted average sales price for the shares. The sales prices ranged from \$85.22 to \$85.82. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- (4) 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.
- Each RSU represents a contingent right to receive one share of KLA-Tencor common stock. Does not include performance-based RSUs held by the Reporting Person for (5) which an assessment has not yet been made regarding the achievement of the applicable performance goals. Any such holdings will be reported on a Form 4 within two

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.