# 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. 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) 08/15/2017									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)	Year) Execut		A. Deemed execution Date, if ny Month/Day/Year)		Code (Instr. 8)		(A) or Disposed of (Instr. 3, 4 and 5)		of (I	f(D) Benefic		unt of Securities ially Owned Following of Transaction(s) and 4)		Form: Direct (D	p of I Bei Ow	7. Nature of Indirect Beneficial Ownership	
							Co	ode	V	Amoun	(A) or t (D)	Pric	ce			or Indirect (I) (Instr. 4)	t (III:	str. 4)	
Common Stock		08/15/2017				5	S		18,980 (1)	) D	\$ 90.8 (2)	376	58,831			D			
Common Stock		08/15/2017			5	S		18,397 (1)	7 D	\$ 90.8 (2)	346	40,434			D				
Common Stock												9,182		I	By (3)	Trust			
Common Stock - Restricted Stock Units (4)													162,969	) <sup>(5)</sup>		D			
Reminder:	Report on a	separate line fo	or each class of secu	rities b	eneficia	lly o	wned		Pers	ons wh	no resp n this f	orm :	are	not requ	ction of inf iired to res	spond unle	ess	C 147	4 (9-02)
			Table II -											y Owned					
Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transactio Date (Month/Day/	n 3A. Deemed Execution Da	ite, if	4. Transac Code	tion	5.	per rative rities ired rosed ) . 3,	6. D and	ate Exer Expiration	convertible securi te Exercisable Expiration Date tth/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		Security (Instr. 5)	9. Number Derivative Securities Beneficiall Owned Following Reported Transaction (Instr. 4)	Owne Form Deriv Secur Direct or Ind	of ative ty: (D) irect	11. Natur of Indirec Beneficia Ownersh (Instr. 4)
					Code	V	(A)	(D)	Date Exe		Expirat Date	ion T	itle	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	08/16/2017		
**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) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on December 5, 2016.
- (2) Represents the weighted average sales price for the shares. The sales prices ranged from \$90.53 to \$91.23. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- (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 RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (5) 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 a 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.