## 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).

(Print or Type Responses)

#### 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

1. Name and Address of Reporting Person * 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) X Director 10% Owner					
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE										X_ Officer (give title below) Other (specify below)  President and CEO				
(Street) MILPITAS, CA 95035				_X_F0					X_ Form fil	Individual or Joint/Group Filing(Check Applicable Line) _ Form filed by One Reporting Person _ Form filed by More than One Reporting Person				
(City	)	(State)	(Zip)	Т	able I - No	n-De	erivative S	Securi	ties Acqui	red, Disp	osed of, or I	Beneficially	Owned	
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Date, if Code		4. Securities Acquire (A) or Disposed of ( (Instr. 3, 4 and 5)		d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)			7. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	V	Amount	or	Price				(I) (Instr. 4)	
Common	Stock		08/06/2018		S		10,424 (1)	D	\$ 118.363 (2)	47,460			D	
Common Stock			08/06/2018		S		3,783 (1)	D	\$ 118.847	43,677		D		
Common Stock - Restricted Stock Units (4)		08/06/2018		М		32,829 ( <u>5</u> )	D	\$ 0	212,584 (6)		D			
Common Stock		08/06/2018		M		32,829 ( <u>5</u> )	A	\$ 0	76,506		D			
Common Stock		08/06/2018		F		16,277 (7)	D	\$ 118.27	60,229		D			
Common Stock - Restricted Stock Units (4)		08/06/2018		M		13,237	D	\$ 0	199,347 (6)		D			
Common Stock		08/06/2018		M		13,237 (8)	A	\$ 0	73,466			D		
Common Stock		08/06/2018		F		6,563 (7)	D	\$ 118.27 66,903				D		
Common Stock									9,182			I	By Trust	
Reminder:	Report on a s	separate line	for each class of secu	rities beneficially o		Per con the	sons wh tained in form dis	o res n this splays	form are a currer	not requality valid		formation spond unle trol numbe	ess	1474 (9-02)
1 Title of	2	2 Tuomasati		(e.g., puts, calls, w	arrants, op	tion	s, conver	tible s	ecurities)		Q Duina of	O Niverbox	a£ 10	11 Notano
1. Title of Derivative Conversion Security (Instr. 3)  2. 3. Trans Date (Month/ Price of Derivative Security			Execution Day (Year) any	te, if Transaction Code Year)  (Instr. 8)  (A) or Disposed of (D) (Instr. 3, 4, and 5)		and Expiration Date (Month/Day/Year)		e Amo Unde Secu	tle and ount of erlying rities r. 3 and		9. Number Derivative Securities Beneficiall Owned Following Reported Transaction (Instr. 4)	Owners Form of Derivati Security Direct ( or Indire	Beneficial Ownership (Instr. 4)	

	Code V (A)	Date Expiration Date  Output  Date Expiration Date  Titl	Amount or Number of Shares	
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### **Reporting Owners**

	Relationships					
Reporting Owner Name / Address	Director	or 10% Owner Officer		Other		
WALLACE RICHARD P C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	X		President and CEO			

#### **Signatures**

/s/ Teri Little as Attorney-in-Fact for Richard P. Wallace	08/08/2018
**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 November 1, 2017.
- (2) Represents the weighted average sales price for the shares. The sales prices ranged from \$118.10 to \$118.77. 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 \$118.36 to \$119.30. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- (4) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
  - On August 6, 2015, in addition to the RSUs granted on that date that were subject only to service-vesting requirements (which RSUs were previously reported on Form 4), the Reporting Person was alsogranted RSUs covering up to a maximum of 66,187 shares (based on 125% of the target shares of 52,950) of KLA-Tencor common stock,
- (5) subject to both performance-vesting and service-vesting requirements. On August 2, 2018 the independent members of the KLA-Tencor Board of Directors determined the level at which the corporate performance goals were attained and, based on the assessment, determined thatthe number of shares subject to the RSUs is 65,658. On August 6, 2018, 50% of the RSUs vested.
- 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.
- Pursuant to the terms of the grant, shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding. The fair market value of (7) KLA-Tencor common stock used for purposes of calculating the number of shares to be withheld was the closing price of KLA-Tencor common stock as reported on August 6, 2018.
- (8) On August 6, 2015, the Reporting Person was granted an RSU for 52,950 shares of KLA-Tencor Common Stock. On August 6, 2018, 25% of those shares vested.
- (9) 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.

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.