STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

WALLACE RICHARD P

Form 4

November 13, 2017

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

may continue. *See* Instruction 1(b).

obligations

(City)

(Zip)

(State)

(Print or Type Responses)

1. Name and Ac	•	_	2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last) C/O KLA-TH CORPORAT TECHNOLO	TON, ONE	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 11/11/2017	X Director 10% Owner Officer (give title Other (specify below) President and CEO			
(Street) MILPITAS, CA 95035			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			

Table I - Non-Derivative	Securities A	canired Dispose	d of or	Ranaficially	Owned
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1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	. Transaction Date 2A. Deemed Month/Day/Year) Execution Date, if any (Month/Day/Year)		3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)				6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(I) (Instr. 4)	
Common Stock - Restricted Stock Units	11/11/2017		M	8,364 (<u>2)</u>	D	\$ 0	180,345 (3)	D	
Common Stock	11/11/2017		M	8,364 (2)	A	\$ 0	61,106	D	
Common Stock	11/11/2017		F	4,365 (4)	D	\$ 102.44	56,741	D	
Common							9,182	I	By Trust

Stock (5)

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 in this form are not required to respond unless the form displays a currently valid OMB control number.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., 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)	4. Transac Code (Instr. 8	5. tionNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	S	ate	7. Title Amou Under Securi (Instr.	nt of lying	8. Price of Derivative Security (Instr. 5)
				Code V	/ (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	

Reporting Owners

Reporting Owner Name / Address Relationships

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 11/13/2017

**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) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) Represents 25% of the RSUs that vested from the grant made on November 11, 2016.
 - Does not include performance-based RSUs, if any, held by the Reporting Person for which an assessment has not yet been made
- (3) 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.

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- 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 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 November 10, 2017.
- (5) 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.