FORM 4	4
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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).	

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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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 P BARNHOLT EDWARD W	2. Issuer Name ar KLA TENCOR			0.	bol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) C/O KLA-TENCOR CORPO TECHNOLOGY DRIVE	(Middle) RATION, ONE	3. Date of Earliest 7 08/10/2018	Transactio	n (Mo	onth/Day/Y	r ear)	Officer (give title below)XOther (specify below) Chairman of the Board						
(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						
(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)	2A. Deemed Execution Date, if any (Month/Day/Year)	(Instr. 8)		4. Securi (A) or Di (Instr. 3,	(A) or	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	or Indirect (I)	Beneficial Ownership			
Common Stock	08/10/2018		Code G	v V	Amount 10,886	~ /	Price \$ 0	28,281	(Instr. 4) I	By Trust			
Common Stock								7,645	D				
Common Stock - Restricted Stock Units ⁽²⁾								2,567	D				

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1474 (9-02)

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.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.	5	5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	n N	Number ;		and Expirati	d Expiration Date		unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	0	of		(Month/Day/Year)		Underlying		Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Ľ	Derivative				Securities		(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				S	Securities				(Instr. 3 and			Owned	Security:	(Instr. 4)
	Security				Acquired				4)			Following	Direct (D)		
					(A) or		•					Reported	or Indirect		
				Disposed		sed				Transaction(s)	(I)				
					of (D)								(Instr. 4)	(Instr. 4)	
					(Instr. 3,										
					4, and 5)										
											Amount				
								Dete	E		or				
								Date Exercisable	Expiration	Title	Number				
								Exercisable	Date		of				
				Code V	V ((A)	(D)				Shares				

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
BARNHOLT EDWARD W C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	Х			Chairman of the Board			

Signatures

/s/ Teri A. Little as Attorney-in-Fact for Edwa	ard W. Barnholt	09/06/2018	
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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) By The Barnholt Family Trust dated January 8, 1987, of which the Reporting Person is a trustee and beneficiary.
- (2) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.

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.