FORM 4	4
--------	---

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

1. Name and Address of Report Trafas Brian M.	2. Issuer Name a KLA TENCO			0.	nbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner			
(Last) (First) C/O KLA-TENCOR CO TECHNOLOGY DRIVE	3. Date of Earliest 07/03/2017	Transacti	on (M	Ionth/Day	/Year)	X_Officer (give title below) Senior Vice Pre	Other (specify b sident	pelow)		
(Stree MILPITAS, CA 95035	4. If Amendment,	Date Orig	inal F	filed(Month	/Day/Yea	ar)	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)	Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership o Form: E	7. Nature of Indirect Beneficial
			Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) (C or Indirect ((I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	07/03/2017		J	V	260 <mark>(1)</mark>	А	\$ 67.499	260	D	
Common Stock	07/05/2017		S		260 <mark>(2)</mark>	D	\$ 91.74	0	D	
Common Stock - Restric Stock Units ⁽³⁾	ted							42,783 (4)	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.		6. Date Exercisable		7. Title and		8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transact	ion	Number		and Expirati	on Date	Amount of		Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code				(Month/Day	ay/Year) Underlying		rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	ative			Securities (Instr. 5)		(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Securities (1		(Instr. 3 and			Owned	Security:	(Instr. 4)		
	Security					Acqu	Acquired			4)			Following	Direct (D)	
					(A) or					Reported	or Indirect				
					Disposed		osed						Transaction(s)	(I)	
					of (D))						(Instr. 4)	(Instr. 4)	
						(Instr. 3,									
						4, and 5)									
											Amount				
								Date	Expiration		or				
								Exercisable		Title	Number				
								LACICISADIC	Date		of				
				Code	V	(A)	(D)				Shares				

Reporting Owners

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
Trafas Brian M. C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			Senior Vice President					

Signatures

**Signature of Reporting Person

07/06/2017 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) Represents shares acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on July 3, 2017.
- (2) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on November 29, 2016.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) 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.