## FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
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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

Higgins Bren D.  (Isas) (Middle) (John Corp. [KLAC] (John Month/Day/Year) (Middle) (John Corp. [KLAC] (John Month/Day/Year) (John Mo	(Print or Ty	pe Response	s)										1						
C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE  4. If Amendment, Date Original Filed(Month/Day/Year)  (Street)  (Month/Day/Year)  (Month/Day/Yea	Name and Address of Reporting Person * Higgins Bren D.											(Check all applicable)							
MILPITAS, CA 95035   C(Dip)   (Sinte)   (Zip)   Table I - Non-Derivative Securities Acquired (Month/Day/Year)   (Month/Day/Ye	C/O KLA-TENCOR CORPORATION, ONE					· · · · · · · · · · · · · · · · · · ·							X_Offic						
Table 1 - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned Following (Instr. 3)   2. Transaction Date (Month/Day/Year)   2. Transaction Date (Month/Da	MILPITA	AS, CA 95			4. If	Amendment	, Date	e Origi	nal I	Filed(Montl	h/Day/Yea	ar)	_X_ Form fil	ed by One Repo	orting Person		icable I	Line)	
Date (Month/Day/Year)   Code (Month/Day/Year)   Code   Code (Instr. 8)   Code   Code (Instr. 8)   Code   Code (Instr. 8)   Code   Code (Instr. 8)   Code (Instr. 4)   Code (Instr.				(Zip)		Т	able l	I - Noi	n-De	rivative S	Securiti	ies Acq	uired, Disp	osed of, or l	Beneficially	Owned			
Common Stock 03/01/2018 S 854 D S 112.92 0 D D  Common Stock - Restricted Stock Units 2 D  Common Stock - Restricted Stock - Restricted Stock Units 2 D  Common Stock - Restricted Stock - Restricted Stock Units 2 D  Common Stock - Restricted Stock - Restricted Stock Units 2 D  Common Stock - Restricted Stock -		ecurity		Date	Execution Date any	ation Date, if	f Code (Instr. 8)		(A) or Disposed of (D)			Benefici Reported	Beneficially Owned Following Reported Transaction(s)			ip of Be	of Indirect Beneficial		
Common Stock - Restricted Stock Units (2)  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.  Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)  1. Title of 2. Date (or Exercise) Date (or Exercise) Date (or Exercise) Date (or Exercise) Price of Price of Price of Price of Price of Orivative Securities (Instr. 3)  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.    Securities (Instr. 3)					(Month/Day/Year)			ode	V	Amount	or	Price	Ì	anu +)		or Indire	ct (Ir	- · · · · · · · · · · · · · · · · · · ·	
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.  Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)  Conversion Date Security of Execution Date Price of Derivative Security (Month/Day/Year) (Instr. 3)  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.  Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)  A. Deemed Securities (Month/Day/Year) Owner (Instr. 3)  B. Price of Derivative Securities (Month/Day/Year) Owner (Instr. 3)  Code Of Derivative Securities (Instr. 3)  Code Of One Date Expriation Date (Instr. 3)  A. Deemed Securities (Instr. 4)  Amount of Underlying Securities (Instr. 4)  Comed Derivative Security (Instr. 4)  Code Of One Date Expriation Title Owner of Date Code Ownerd Security (Instr. 4)  Code Of One Date Exprision Date (Instr. 4)  Code Of One Date Exprision Title Owner of Date Owner	Common	Stock		03/01/2018				S		854 (1)	D	\$ 112.9	0			D			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)  1. Title of Derivative Conversion Date (Month/Day/Year) Operivative Security Security Security Securities Acquired (A) or Derivative Security Security Security Security Securities Acquired (A) or Disposed of (D) (Instr. 8) Operivative Securities Acquired (A) or Disposed of (D) (Instr. 3) A, and 5)  Code V (A) (D) Date Exercisable and Expiration Date (Instr. 5) Date Exercisable and Anount of Derivative Securities Securities (Instr. 5) (Instr. 4)  Amount of Underlying Securities Securities (Instr. 5) (Instr. 4)  Amount of Underlying Securities Securities Securities (Instr. 5) (Instr. 4)  Derivative Securities (Instr. 5) (Instr. 5) (Instr. 4)			estricted										63,626	(3)		D			
1. Title of Derivative Security (Instr. 3)  Derivative Security  Conversion Date  Conversion Date  (Instr. 3)  Derivative Security  Conversion Security  (Instr. 3)  Derivative Security  Conversion On Date  (Instr. 8)  Derivative Securitits  Security  (Instr. 3)  Derivative Securitits  Securitits  Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)  Code  V (A) (D)  Date  Exercisable and Expiration Date (Month/Day/Year)  Amount of Underlying Securitits (Instr. 5)  Derivative Security  Security  Ownership Form of Derivative Security  Following Reported Transaction(s) (Instr. 4)  Direct (D) or Indirect Transaction(s) (Instr. 4)  Title  Number of Derivative Security  Following Reported Transaction(s) (Instr. 4)  Direct (D) or Indirect Transaction or Number of Derivative Security  Following Reported Transaction(s) (Instr. 4)  Title  Number of Derivative Security  Number of Indirect Ownership Form of Derivative Security  Following Reported Transaction(s) (Instr. 4)  Title  Number of Derivative Security  Number of Indirect Ownership Form of Own	Reminder:	Report on a s	separate line f	Table II -	Deriv	ative Securi	ties A	cquir	Per con the	sons whatained in form dis	no resp n this f splays of, or B	form a a curr senefici	re not requently valid	uired to res	spond unle	ess	EC 147	74 (9-02)	
		Conversion or Exercise Price of Derivative	Date	on 3A. Deemed Execution Day	ate, if	4. Transaction Code	5. Num of Deri Secu Acqu (A) of Disp of (I (Inst	vative varities uired or bosed D) cr. 3,	6. I and (M	Date Exer I Expirationth/Day/	cisable on Date 'Year)	7. Ar Ur Se (Ir 4)	Title and nount of derlying curities str. 3 and  Amount or le Number	Derivative Security	Derivative Securities Beneficiall Owned Following Reported Transaction	Owner Form Deriv Securi Direct or Inc.	of rative rity: t (D)	11. Natur of Indirec Beneficia Ownersh (Instr. 4)	
	Repor	ting O	wners			Code V	(A)	(D)											

	Relationships						
Reporting Owner	r Name / Address	Director	10% Owner	Officer	Other		
Higgins Bren D. C/O KLA-TENCOI ONE TECHNOLO MILPITAS, CA 95	GY DRIVE			EVP & Chief Financial Officer			

## **Signatures**

Teri A. Little as Attorney-in-Fact for Bren D. Higgins

03/02/2018

**Signature of Reporting Person	Date
-Signature of Reporting Person	

## **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 May 8, 2017.
- (2) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- 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.