FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	VAL							
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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* Higgins Bren D.					2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION					3. Date of Earliest Transaction (Month/Day/Year) 08/08/2018								X	Office	er (give title v)		(specify)
ONE TECHNOLOGY DRIVE				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable				
(Street) MILPITAS CA 95035 (City) (State) (Zip)													Line)		filed by More	Reporting Per than One Re	
(City)	(St		ip)	rativo	Soci	uritio	- Λ <i>c</i>	· auire		lienosod o	of or I	Ronofie	cially	Owno	.d		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye	2A Ex ar) if	2A. Deemed Execution Date,		, 3 T	3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4		ed (A) or	5. An Secu Bene Owne		mount of irities eficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
								ode	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)
Common	Stock		08/08/201	8				S		600(1)	D	\$116	.77(2)	1	3,089	D	
Common	Stock		08/08/201	8				S		265(1)	D	\$11	8.13	1	2,824	D	
Common	Stock		08/08/201	8				S		700(1)	D	\$115.	.896 ⁽³⁾	1	2,124	D	
Common Stock 0			08/08/201	8				S		344(1)	D	\$117.	7.432 ⁽⁴⁾		1,780	D	
Common Stock 08/08/2			08/08/201	3			S		700(1)	D	\$115.	5.969(5)		1,080	D		
Common Stock 08/09/2018							S		1,243(1)	D	\$117.355(6)		9,837		D		
Common Stock 08/09/2018					;			S		2,899 ⁽¹⁾ D		\$11	\$117.46		5,938	D	
Common Stock - Restricted Stock Units ⁽⁷⁾														,395(8)	D		
		Та	ble II - Derivat (e.g., p							posed of, convertib				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Trans	4. Transaction Code (Instr.		rative rities rired r osed) r. 3, 4	6. Date Ex Expiration (Month/Da		ercisable and Date			8. Prof Deri Secu	ivative Securities urity Beneficially tr. 5) Owned Following Reported	Securities Beneficially Owned Following Reported Transaction(s	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
	of Respons			Code	v	(A) (D		Date Exercisab		Expiration le Date	Amou or Numb of Title Share:		er				

Explanation of Responses:

- 1. This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on January 30, 2018.
- 2. Represents the weighted average sales price for the shares. The sales prices ranged from \$116.52 to \$117.21. 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 \$115.71 to \$116.00. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- 4. Represents the weighted average sales price for the shares. The sales prices ranged from \$117.15 to \$118.13. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- 5. Represents the weighted average sales price for the shares. The sales prices ranged from \$115.78 to \$116.00. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- 6. Represents the weighted average sales price for the shares. The sales prices ranged from \$117.28 to \$117.46. The reporting person will provide upon request full information regarding the number of shares sold at each separate price.
- 7. Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.

8. 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.

Remarks:

/s/ Teri A. Little as Attorneyin-Fact for Bren D. Higgins 08/10/2018

** Signature of Reporting Person Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.