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 obligations may continue. See Instruction 1(b).

(Print or Type Responses)

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

					2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
			(Middle) RATION, ONE	3. Date of Earlies 08/08/2018	t Transactio	on (N	Ionth/Day	//Year)		er (give title bel	ow) Chief Financ	Other (specify l	pelow)	
MI DIT	10 01 05	(Street)		4. If Amendment	, Date Origi	inal I	Filed(Month	n/Day/Y	ear)	_X_ Form fil	ual or Joint/Ged by One Repo	orting Person	(Check Applica	ble Line)	
MILPITA (City	AS, CA 95	(State)	(Zip)	70	11 7 37		•								
			•	2A. Deemed	1		1			- 	osed of, or I			7 Notes	
1.Title of S (Instr. 3)	ecurity		2. Transaction Date (Month/Day/Year)	Execution Date, if	(Instr. 8)	ction	(A) or D (Instr. 3,	ispose	d of (D)	Benefici	ant of Securi ally Owned d Transaction and 4)	Following	Form: Direct (D)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	V	Amount	or	Price				(I) (Instr. 4)	(IIIsti: 4)	
Common	Stock		08/08/2018		S		600 (1)	D	\$ 116.77 (2)	13,089			D		
Common	Stock		08/08/2018		S		265 (1)	D	\$ 118.13	12,824			D		
Common	Stock		08/08/2018		S		700 (1)	D	\$ 115.896	5 12,124			D		
Common	Stock		08/08/2018		S		344 (1)	D	\$ 117.432 (4)	2 11,780			D		
Common	Stock		08/08/2018		S		700 (1)	D	\$ 115.969 (5)	11,080			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	\$ 117.46	6,938			D		
Common Stock Un	Stock - R	estricted								64,395	(8)		D		
Reminder:	Report on a s	separate line 1	for each class of secu	rities beneficially o	wned direc	Per cor	sons wh	o res	form are	not requ	ction of inf uired to res OMB cont	spond unle	ess	1474 (9-02)	
			Table II -	Derivative Securi (e.g., puts, calls, w			-			ly Owned					
Security	2. Conversion or Exercise Price of Derivative Security		Execution D any	` ' '	5.	6. I and (M	Date Exer I Expiration onth/Day/	cisable on Dat	e 7. Ti e Amo Und Secu	itle and bunt of erlying urities tr. 3 and		9. Number Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form of Derivati Security Direct (or Indire	Ownership (Instr. 4) D) ect	
					, , , ,										

Code V (A) (D) Date Expiration Date Title or Number of Shares

Reporting Owners

			Relationships	
Reporting Owner Name / Address	Director	10% Owner	Officer	Other
Higgins Bren D. C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			EVP & Chief Financial Officer	

Signatures

/s/ Teri A. Little as Attorney-in-Fact for Bren D. Higgins	08/10/2018
**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) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on January 30, 2018.
- 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.

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.