Little Teri A. Form 4 September 05, 2017

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *Little Teri A.			Symbol	nd Ticker or Trading	5. Relationship of Reporting Person(s) to Issuer				
(Last)	(First)	(Middle)	3. Date of Earliest	Transaction	(Check all applicable)				
ONE TECHNOLOGY DRIVE			(Month/Day/Year) 09/03/2017		Director 10% OwnerX_ Officer (give title Other (specify below) EVP, CLO and Secretary				
(Street) MILPITAS, CA 95035			4. If Amendment, l	Date Original	6. Individual or Joint/Group Filing(Check				
			Filed(Month/Day/Ye	ear)	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 Acq	uired, Disposed of, or Beneficially	y Owned			
1.Title of	2. Transaction	n Date 2A. Deer	med 3.	4. Securities Acquired	5. Amount of 6.	7. Nature			

(City)	(State)	Table	e I - Non-De	erivative S	Securi	ities Acqu	iired, Disposed of	, or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securit on(A) or Di (Instr. 3,	spose	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	09/03/2017		M	795 (1)	A	\$ 0	10,429	D	
Common Stock	09/03/2017		F	299 (2)	D	\$ 94.08	10,130	D	
Common Stock - Restricted Stock Unit							29,828 (4)	D	

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

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SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Tit.	le and	8. Price of	9.
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration Date		Amou	unt of	Derivative	D
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Unde	rlying	Security	Se
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	rities	(Instr. 5)	В
	Derivative				Securities			(Instr	. 3 and 4)		O
	Security				Acquired						Fo
					(A) or						Re
					Disposed						Tr
					of (D)						(It
					(Instr. 3,						
					4, and 5)						
									Amount		
									or		
						Date Exercisable	Expiration Date	Title			
									of		
				Code V	(A) (D)				Shares		
				Code v	(11) (D)				Silaios		

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

Little Teri A.

ONE TECHNOLOGY DRIVE MILPITAS, CA 95035

EVP, CLO and Secretary

Signatures

/s/ Teri A. Little 09/05/2017 **Signature of Date 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. **
- On September 3, 2015, the Reporting Person received a grant of restricted stock units ("RSUs") covering 3,178 shares of **(1)** KLA-Tencor common stock. On September 3, 2017, the Reporting Person vested in twenty-five percent (25%) of such RSUs.
- Pursuant to the terms of the grant, shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding. The fair market value of KLA-Tencor common stock used for purposes of calculating the number of **(2)** shares to be withheld was the closing price of KLA-Tencor common stock as reported on September 1, 2017.
- Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock. **(3)**
- 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 **(4)** two business days of the date such assessment is made.

Reporting Owners 2

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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.