

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

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INITIAL STATEMENT OF 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

(Print or Type Responses)						
1. Name and Address of Reporting Person [*] – Little Teri A.	2. Date of Event Requiring Statement (Month/Day/Year) 10/20/2015		3. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]			
(Last) (First) (Middle) ONE TECHNOLOGY DRIVE	10/20/2015	Issuer	f Reporting Person((s) to 5. If Amendment, Date Original Filed(Month/Day/Year)		
(Street) MILPITAS, CA 95035		(Check all applicable) Director 10% Owner X_Officer (give title Other (specify below) SVP, GC and Secretary		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 Beneficially Owned					
1.Title of Security (Instr. 4)		2. Amount of Securities Beneficially Owned (Instr. 4)		4. Nature of Indirect Beneficial Ownership (Instr. 5)		
Common Stock	6,582	6,582				
Common Stock - Restricted Stock Unit	3,178		D			

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

SEC 1473 (7-02)

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

1. Title of Derivative Security	2. Date Exer	cisable	3. Tit	le and Amount of	4. Conversion	5. Ownership	6. Nature of Indirect Beneficial
(Instr. 4)	(Month/Day/Year)		1 5 8		or Exercise	Form of	Ownership (Instr. 5)
					Price of	Derivative (I Security: Direct	
			(Instr. 4)		Derivative		
	Date	Expiration			Security	(D) or Indirect	
	Exercisable	F	Title	Amount or Number of		(I)	
	Excretisable	Dute		Shares		(Instr. 5)	

Reporting Owners

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
Little Teri A. ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			SVP, GC and Secretary		

Signatures

Teri A. Little	10/29/2015	
**Signature of Reporting Person	Date	

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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.

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