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).

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

Print or Ty	pe Response	s)														
1. Name and Address of Reporting Person * Khan Ahmad A.				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					
(Last) (First) (Middle) ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 08/06/2015							X Officer (give title below) Other (specify below) SVP, Patterning Division					
MII DIT <i>i</i>	AS, CA 95	(Street)		4. If Amenda	nent,	Date Origin	nal Fi	led(Month	n/Day/Year)		X_ Form fil	ed by One Repo	Group Filing orting Person One Reporting		ble Line)	
(City		(State)	(Zip)		Ta	able I - Nor	-Der	ivative S	Securities .	Acqui	red, Disp	osed of, or l	Beneficially	Owned		
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date any (Month/Day/Ye	,	Code (Instr. 8)			f (D) Beneficia		nt of Securities Illy Owned Following Transaction(s) and 4)		Form:	7. Nature of Indirect Beneficial Ownership			
						Code	V	Amour	or (D)	Price				or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Stock Un	Stock - R	estricted	08/06/2015			A		13,250	0 A	\$ 0	52,483	(3)		D		
Common	Stock										5,697 ⁽⁴)		D		
	_	I	(e.g., puts, call	ls, wa	arrants, op	tions,	, conver	tible secur	ities)				-1.	1.	
1. Title of Derivative Security (Instr. 3)	Conversion	3. Transaction Date (Month/Day/	3A. Deemed Execution Date (Year)	Derivative Securit (e.g., puts, calls, w. 4. Transaction Code Year) (Instr. 8)		arrants, op 5.	6. Date Exercisal and Expiration D (Month/Day/Yea		tible secur cisable on Date	7. Ti Amo Unde Secu	tle and bunt of erlying rities r. 3 and	8. Price of Derivative Security (Instr. 5)		Owners Form o Derivat Securit Direct or India	Owners (Instr. 4 D) ect	
						(Instr. 3, 4, and 5)							(msu. 4)	(mstr		
				Code	V	(A) (D)	Date Exer	cisable	Expiration Date	Title	Amount or Number of Shares					
Repor	ting O	wners		Code	V	(A) (D)					Silares					
				Relatio	nship	os			7							
Reporting	g Owner Na	me / Address	Director 10%	Office	•			Oth								

SVP, Patterning Division

Signatures

Khan Ahmad A.

MILPITAS, CA 95035

ONE TECHNOLOGY DRIVE

	Brian M. Martin as Attorney-in-Fact for Ahmad A. Khan	08/10/2015		
•	**Signature of Reporting Person	Date		

Owner

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) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- Represents a grant of RSUs subject only to service-vesting requirements. The Reporting Person will vest twenty-five percent (25%) of the RSUs on the one-year anniversary of the grant date (August 6, 2016) and an additional twenty-five percent (25%) on each annual anniversary of the grant date thereafter through August 6, 2019, in each case subject to the Reporting Person continuing as a service provider to KLA-Tencor through the applicable vesting date. The shares of common stock will be issued as the RSUs vest.
- (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 two business days of the date such assessment is made.
- (4) Includes 355 shares acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on June 30, 2015.

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.