

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

OMB APPROVAL					
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nours per respons	se 0.5				

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

(Tillit of Type Responses)									
Name and Address of Reporting Person * Steimberg Amichai	2. Date of Event Statement (Mont 03/22/2019				3. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]				
ONE TECHNOLOGY DRIVE (Middle)			Issuer		Issuer	ionship of Reporting Person(s) to		5. If Amendment, Date Original Filed(Month/Day/Year)	
(Street)				Officer (give title		all applicable) le 10% Owne Other (spec	Applicable	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person	
MILPITAS, CA 95035						Orbotech Ltd.	Form fi		
(City) (State) (Zip)	Table I - Non-Derivative Securities Beneficially Owned							wned	
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)				4. Nature of Indirect Beneficial Ownership (Instr. 5)		
Common Stock			18,292			D			
Common Stock - Restricted Stock Units (1)			34,470			D			
Reminder: Report on a separate line for each class of Persons who respon unless the form disp	d to the c	ollection	of info	ormatio	n contained in t	his form are no	ot required to re	SEC 1473 (7-02)	
Table II - Derivativ			 		· • · · · · · · · · · · · · · · · · · ·			1	
(Instr. 4)	nd Expirati	Date Exercisable d Expiration Date onth/Day/Year)			mount of derlying Derivativ	Price of Derivative	5. Ownership Form of Derivative Security: Direct	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
	Date Exercisable	Expiration Date	Title	Amount	t or Number of	Security	(D) or Indirect (I) (Instr. 5)		
Reporting Owners									

1		Relationships				
	Reporting Owner Name / Address	Director	10% Owner	Officer	Other	
	Steimberg Amichai ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			CEO - Orbotech Ltd.		

Signatures

/s/ Jeffrey Cannon, attorney-in-fact	03/28/2019
**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).
- Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock. Does not include performance-based RSUs, if any, (1) 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.