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

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longer subject to Section 16. Form 4 or Instruction 1(b).

#### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Form 5 obligations may Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

<u> </u>	e Responses														
1. Name and Address of Reporting Person * Levy Asher			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
(Last) (First) (Middle) ONE TECHNOLOGY DRIVE			3. Date of Earliest Transaction (Month/Day/Year) 02/20/2019						X_Officer (give title below) Other (specify below) CEO - Orbotech Ltd.						
(Street) MILPITAS, CA 95035			4. If Amendment, Date Original Filed(Month/Day/Year)						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)			(Zip)	Table I - Non-Derivative Securities Acqu						lired, Disposed of, or Beneficially Owned					
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Yea	Execut any	Execution Date, if	(Instr. 8)	tion	4. Securitie (A) or Disp (Instr. 3, 4			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)			6. Ownership Form: Direct (D)	Beneficial	
					(Wionus	Code	V	Amount	(A) or (D)	Price	, , ,	nstr. 3 and 4)			Ownership (Instr. 4)
Common	Stock		02/20/2019			A		26,273 (1)	A	\$ 0	26,273		I	)	
Common	Stock		02/20/2019			A		317 (2)	A	\$ 0	26,590		I	)	
Common	Stock		02/20/2019			A		757 <u>(3)</u>	A	\$ 0	27,347		I	)	
Common Stock - Restricted Stock Units (4) 02/20/20			02/20/2019			A		16,715 (5)	A	\$ 0	16,715 <sup>(6)</sup>		I	)	
Common Stock - Restricted Stock Units (4) 02/20/2019			02/20/2019			A		2,985 (7)	A	\$ 0	19,700 (6)		I	)	
Common Stock - Restricted Stock Units (4) 02/20/2019			02/20/2019			A		995 (8)	A	\$ 0	20,695 (6)		I	)	
Common Stock - Restricted Stock Units (4) 02/20/201		02/20/2019			A		3,338 (9)	A	\$ 0	24,033 (6)		I	)		
Common Stock - Restricted Stock Units (4)		02/20/2019			A		1,390 (10)	A	\$ 0	25,423 (6)		I	)		
Common Stock - Restricted Stock Units (4)		02/20/2019			A		6,676 (11)	A	\$ 0	32,099 (6)		I	)		
Common Stock - Restricted Stock Units (4)		02/20/2019			A		5,575 (12)	A	\$ 0	37,674 <sup>(6)</sup>		I	)		
Common Stock - Restricted Stock Units (4)		02/20/2019			A		2,323 (13)	A	\$ 0	39,997 (6)		I	)		
Common Stock - Restricted Stock Units (4)		02/20/2019			A		2,911 (14)	A	\$ 0	42,908 (6)		I	)		
Common Stock - Restricted Stock Units (4)		02/20/2019			A		1,213 (15)	A	\$ 0	44,121 (6)		I	)		
Reminder: I	Report on a s	eparate line for each	class of securities ber	- Derivat	ive Securit	ties Acquire	Perso this fo curre d, Dis	orm are n ntly valid posed of, o	ot requi OMB co or Benefi	ired to ontrol icially		nformation ss the form	contained i displays a	n SEC	1474 (9-02)
1. Title of	2.	3. Transaction	3A. Deemed 4		1	er 6. Date			e securit	1	le and Amount of	8. Price of	9. Number of	10.	11. Natu
Derivative Conversion Date Execution Date, if Security or Exercise (Month/Day/Year) any		Execution Date, if	Code Derivative		Expirati (Month/	(Month/Day/Year)			Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownersl Form of Derivati Security Direct (I or Indire	of Indire Benefici Ownersl (Instr. 4)	
				Codo	(4)	Date Ex	ercisa	ble Expir	ation	Title	Amount or Number				

Non- Qualified Stock Option (Right to Buy)	\$ 103.05	02/20/2019	A	2,576 (16)	06/21/2020 <sup>(17)</sup>	06/20/2025	Common Stock	2,576.00	\$ 0	2,576	D	
Non- Qualified Stock Option (Right to Buy)	\$ 53.81	02/20/2019	A	4,901 (18)	06/29/2019 <sup>(19)</sup>	06/28/2024	Common Stock	4,901.00	\$ 0	4,901	D	
Non- Qualified Stock Option (Right to Buy)	\$ 44.94	02/20/2019	A	3,174	09/12/2019 <sup>(21)</sup>	09/11/2023	Common Stock	3,174.00	\$ 0	3,174	D	

## **Reporting Owners**

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

## **Signatures**

/s/ Jeffrey Cannon, attorney-in-fact	02/21/2019
**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).
- Received in exchange for 105,095 ordinary shares of Orbotech Ltd. in connection with the merger (the "Merger") of Tiburon Merger Sub Technologies Ltd. with and into Orbotech Ltd. Pursuant to the agreement governing the merger, each Orbotech ordinary share is entitled to receive \$38.86 and 0.25 of a share of KLA-Tencor Corporation common stock, with cash in lieu of a fractional
- (2) Received in exchange for 1,666 vested options to purchase Orbotech Ltd. ordinary shares at an exercise price of \$15.57 per ordinary share in connection with the Merger.
- (3) Received in exchange for 5,197 vested options to purchase Orbotech Ltd. ordinary shares at an exercise price of \$27.45 per ordinary share in connection with the Merger.
- (4) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (5) On February 20, 2019 the reporting person received a grant of RSUs which vest as to 50% of the award on July 1, 2019 and as to the remaining 50% of the award on December 31, 2019, subject to continued service.
- (6) 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.
- (7) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 4,887 ordinary shares of Orbotech Ltd. The RSUs vest in full on August 3, 2019.
- (8) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 1,629 ordinary shares of Orbotech Ltd. The RSUs vest in full on August 3, 2019.
- (9) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 5,464 ordinary shares of Orbotech Ltd. The RSU vests as to 50% of the underlying shares on each of September 12, 2019 and September 12, 2020.
- (10) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 2,276 ordinary shares of Orbotech Ltd. The RSU vests as to 50% of the underlying shares on each of September 12, 2019 and September 12, 2020.
- (11) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 10,928 ordinary shares of Orbotech Ltd. The RSU vests as to 50% of the underlying shares on each of September 12, 2019 and September 12, 2020.
- (12) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 9,126 ordinary shares of Orbotech Ltd. The RSU vests as to 50% of the underlying shares on June 29, 2019 and 25% of the underlying shares on each of June 29, 2020 and 2021.
- (13) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 3,803 ordinary shares of Orbotech Ltd. The RSU vests as to 50% of the underlying shares on June 29, 2019 and 25% of the underlying shares on each of June 29, 2020 and 2021.
- (14) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 4,766 ordinary shares of Orbotech Ltd. The RSU vests as to 50% of the underlying shares on June 21, 2020 and 25% of the underlying shares on each of June 21, 2021 and 2022.
- (15) Assumed by KLA-Tencor Corporation in connection with the Merger. Formerly represented unvested restricted stock units for 1,986 ordinary shares of Orbotech Ltd. The RSU vests as to 50% of the underlying shares on June 21, 2020 and 25% of the underlying shares on each of June 21, 2021 and 2022.
- (16) Received in exchange for unvested options to purchase 4,217 Orbotech Ltd. ordinary shares at an exercise price of \$62.95 per share in connection with the Merger.
- (17) Vests as to 50% of the underlying shares on June 21, 2020 and 25% of the underlying shares on each of June 21, 2021 and 2022.
- (18) Received in exchange for unvested options to purchase 8,024 Orbotech Ltd. ordinary shares at an exercise price of \$32.87 per share in connection with the Merger.
- (19) Vests as to 50% of the underlying shares on June 29, 2019 and 25% of the underlying shares on each of June 29, 2020 and 2021.
- (20) Received in exchange for unvested options to purchase 5,196 Orbotech Ltd. ordinary shares at an exercise price of \$27.45 per share in connection with the Merger.

(21) Vests as to 50% of the underlying shares on each of September 12, 2019 and 2020.

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.