

KLA TENCOR CORP

Reported by
LORIG BRIAN

FORM 3

(Initial Statement of Beneficial Ownership)

Filed 02/08/17 for the Period Ending 02/02/17

Address	ONE TECHNOLOGY DRIVE MILPITAS, CA 95035
Telephone	4088756000
CIK	0000319201
Symbol	KLAC
SIC Code	3827 - Optical Instruments and Lenses
Industry	Semiconductor Equipment & Testing
Sector	Technology
Fiscal Year	06/30

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

1. Name and Address of Reporting Person * Lorig Brian (Last) (First) (Middle)	2. Date of Event Requiring Statement (MM/DD/YYYY) 2/2/2017	3. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]
ONE TECHNOLOGY DRIVE	4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) SVP /	
MILPITAS, CA 95035 (City) (State) (Zip)	5. If Amendment, Date Original Filed (MM/DD/YYYY)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	2441	D	
Common Stock - Restricted Stock Units (1)	21546 (2)	D	

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

1. Title of Derivate Security (Instr. 4)	2. Date Exercisable and Expiration Date (MM/DD/YYYY)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

- (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, 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.
- (Consists of eight different RSU awards covering: (1) 1,528 shares, which will vest as to all of the shares on September 4, 2017; (2) 1,100 shares, which will vest as to 50% of the shares on September 4, 2017 and 2018; (3) 1,985 shares, which will vest as to 33% of the shares on September 3, 2017, 2018 and 2019; (4) 6,022 shares, which will vest as to 25% of the shares on November 11, 2017, 2018, 2019 and 2020; (5) 3,100 shares, which will vest as to 50% of the shares on August 4, 2018 and 2020; (6) 6,200 shares, which will vest as to 25% of the shares on August 4, 2017, 2018, 2019 and 2020; (7) 1,000 shares, all of which vests on February 6, 2017; and (8) 611 shares, all of which vests on September 4, 2017, in each case subject to continued service on the applicable vesting date.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Lorig Brian ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			SVP	

Signatures

/s/ Teri A. Little, attorney-in-fact for Brian Lorig

2/7/2017

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

* 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.