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CALDERON Form 4/A March 29, 20 FORM Check this if no longe subject to Section 16 Form 4 or Form 5 obligations may contin <i>See</i> Instruc- 1(b).	11 4 UNITED S a box er STATEM 5. Filed purs Section 17(a)	ENT OI suant to S a) of the I	Wasl F CHANC Section 16	hington, l GES IN B SECURI (a) of the lity Holdi	D.C. 205 BENEFIC TIES Securition Ing Com	3 49 C IAI es Ex pany	COW chang Act o	COMMISSION NERSHIP OF ge Act of 1934, f 1935 or Sectic 40	OMB Number: Expires: Estimated a burden hou response	irs per		
			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]					5. Relationship of Reporting Person(s) to Issuer				
(Last) (First) (Middle) 3. Da (Mon				3. Date of Earliest Transaction (Month/Day/Year) 11/03/2010				(Check all applicable) <u>X</u> Director 10% Owner Officer (give title Other (specify below)				
Filed(4. If Amendment, Date Original Filed(Month/Day/Year) 11/03/2010				 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-De	rivative S	ecurit	ties Acc	quired, Disposed o	of, or Beneficial	lly Owned		
1.Title of Security (Instr. 3)	2. Transaction Dat (Month/Day/Year)	Execution	emed	3. Transactio Code (Instr. 8)	4. Securi	ties I (A) c I of (D	or))	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of		
Common Stock - Restricted Stock Units	11/03/2010			A	2,772 (2)	A	\$ 0	5,920	D			
Common Stock								8,417.627 <u>(3)</u>	D			

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

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information contained in this form are not
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(9-02)

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displays a currently valid OMB control number.

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. ofNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	7. Title a Amount Underly Securitie (Instr. 3	t of ving es	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secu Bene Owne Follo Repo Trans (Instr
			Code V	(A) (D)	Date Exercisable	Expiration Date	or Title N of	Jumber		

Reporting Owners

Reporting Owner Name / Address	Relationships						
FB	Director	10% Owner	Officer	Other			
CALDERONI ROBERT C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	Х						
Signatures							
Brian M. Martin as Attorney-in-Fact for Calderoni	03/29/2011						
**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).
- (1) Each restricted stock unit represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) The restricted stock units will fully vest one year from date of grant and will be deliverable on such date.

Amount has been revised to include an additional 113.627 shares of KLA-Tencor common stock acquired by Mr. Calderoni prior to the filing date of the original Form 4 pursuant to automatic reinvestments of dividends paid on KLA-Tencor common stock, which shares

(3) were not included in Mr. Calderoni's common stock holdings reported in the original Form 4. Pursuant to such dividend reinvestments, Mr. Calderoni acquired 41.225 shares of KLA-Tencor common stock on June 1, 2010 at a price of \$30.21 per share, and 72.402 shares of KLA-Tencor common stock on September 1, 2010 at a price of \$28.82 per share.

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.