Martin Brian Form 4 December 01, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

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OMB APPROVAL

response...

if no longer subject to Section 16. Form 4 or Form 5

Check this box

obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Ad Martin Brian	ddress of Report	ting Person *	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)		(Middle)	3. Date of Earliest Transaction	(Check all applicable)			
C/O KLA-TI CORPORAT TECHNOLO	TION, ONE		(Month/Day/Year) 11/30/2011	Director 10% Owner _X Officer (give title Other (specify below) Executive VP & General Counsel			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
MILPITAS,	CA 95035		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(State)	(Zin)					

(City)	(State)	(Zip) Tabl	le I - Non-I	Derivative	Secu	rities Acquir	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if any (Month/Day/Year)		3. 4. Securities Acquired (A) Transactior Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or Code V Amount (D) Price				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 Indirect Beneficial Ownership (Instr. 4)
Common Stock	11/30/2011		S	9,500	D	\$ 45.7371 (1)	5,399	D	
Common Stock - Restricted Stock Units							45,350 <u>(3)</u>	D	

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

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SEC 1474 (9-02)

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

1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exer		7. Tit		8. Price of	9. Nu
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Transacti Code (Instr. 8)	ofNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			Secur	rlying	Derivative Security (Instr. 5)	Deriv Secur Bene Own Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Martin Brian C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035

Executive VP & General Counsel

Signatures

Brian M. Martin 12/01/2011

**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).
- This transaction was executed in multiple trades at prices ranging from \$45.73 to \$45.76. The price reported above reflects the weighted (1) average sales price. The Reporting Person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer, full information regarding the number of shares and prices at which the transaction was effected.
- (2) 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
- (3) regarding the achievement of the applicable performance goals. Any such holdings will be reported on 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.

Reporting Owners 2

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