FORM 4	4
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Check this box if no
longer subject to
Section 16. Form 4 or
Form 5 obligations
may continue. See
Instruction 1(b).

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

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STATEMENT OF CHANGES IN 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

(Print or Type Responses)										
1. Name and Address of Reporting Po DENTINGER MARK P	2. Issuer Name ar KLA TENCOR			0,	bol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) C/O KLA-TENCOR CORPOI TECHNOLOGY DRIVE	(Middle) RATION, ONE	E 3. Date of Earliest Transaction (Month/Day/Year) 11/11/2012 X_Officer (give title below) EVP & Chief Finan				Other (specify below) cial Officer				
(Street) MILPITAS, CA 95035		4. If Amendment, I	Date Origin	al Fi	led(Month/I	Day/Year)	6. Individual or Joint/Group Filing _X_Form filed by One Reporting Person Form filed by More than One Reporting	· · ·	ble Line)
(City) (State)	(Zip)	Tal	ble I - Non	-Der	ivative Se	ecuritie	es Acqui	ired, Disposed of, or Beneficially	Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		3. Transac Code (Instr. 8) Code	tion	4. Securi (A) or Di (Instr. 3, Amount	isposed	l of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownershij (Instr. 4)
Common Stock	11/11/2012		A	v	20,000	~ /	<u>(1)</u>	32,629	D	
Common Stock	11/11/2012		F		9,336 (2)	D	\$ 46.24	23,293	D	
Common Stock - Restricted Stock Units ⁽³⁾								84,400 ⁽⁴⁾	D	

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

SEC 1474 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

			(e.g., p	outs, calls	s, w	arran	ts, op	tions, conver	tible securi	ties)					
1. Title of	2.	3. Transaction	3A. Deemed	4.		5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transact	ion	Num	ber	and Expirati	on Date	Amo	unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code		of		(Month/Day	/Year)	Unde	rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	vative			Secu	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Secur	rities			(Instr	. 3 and			Security:	(Instr. 4)
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) 0							1	or Indirect	
						Dispo							Transaction(s)	· · /	
						of (D	·						(Instr. 4)	(Instr. 4)	
						(Instr									
						4, and	15)								
											Amount				
								Date	Expiration		or				
								Exercisable	*	Title	Number				
								Excicisable	Date		of				
				Code	V	(A)	(D)				Shares				

Reporting Owners

			Relationships	
Reporting Owner Name / Address	Director	10% Owner	Officer	Other
DENTINGER MARK P C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			EVP & Chief Financial Officer	

Signatures

Brian M. Martin as Attorney-in-Fact for Mark P. Dentinger	11/13/2012

- * 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) On November 11, 2008, the Reporting Person received a grant of restricted stock units ("RSU's") covering 40,000 shares of KLA-Tencor common stock. On November 11, 2012, the Reporting Person vested in fifty percent (50%) of such RSUs.
- Pursuant to the terms of the November 11, 2008 RSU grant, 9,336 shares of KLA-Tencor common stock were automatically withheld at vesting to cover required tax withholding. Because the vesting date of such RSUs occurred on a day on which the NASDAQ Stock Market was closed for trading, the fair market value of KLA-Tencor
- (2) within ording. Because the vesting date of such NSOS occurred on a day on which the NASDAQ Stock Market was closed for hading, the fait market value of NLA-Tencor common stock used for purposes of calculating the number of shares to be withheld was the closing price of KLA-Tencor common stock as reported on the NASDAQ Stock Market on the last completed trading day immediately prior to such vesting date.
- (3) Each RSU represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) 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 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.

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