FORM 4	4
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Check this box if no	
longer subject to	
Section 16. Form 4 or	r
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

1. Name and Address of Re DENTINGER MARK			2. Issuer Name an KLA TENCOR			0,	bol		5. Relationship of Reporting Perso (Check all applie		r
(Last) (F C/O KLA-TENCOR C TECHNOLOGY DRI		(Middle) ATION, ONE	3. Date of Earliest 7 08/05/2013	Transactior	n (Mo	onth/Day/	Year)		X_Officer (give title below) EVP & Chief Finance	Other (specify b cial Officer	pelow)
(S MILPITAS, CA 9503	treet) 5		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) (S	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)	Execution Date, if any	(Instr. 8)		4. Securi (A) or Di (Instr. 3,	isposed	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form:	Beneficial
			(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock		08/05/2013		S <mark>(1)</mark>		26,841	D	\$ 58.7 (2)	1,000	D	
Common Stock - Rest Stock Units (3)	ricted								33,400 (4)	D	

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

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. SEC 1474 (9-02)

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

			(e.g.,]	outs, calls	, wa	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	ative			Secur	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Secur	ities			(Instr	. 3 and		Owned	Security:	(Instr. 4)
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) o	r						Reported	or Indirect	
						Dispo							Transaction(s)		
						of (D							(Instr. 4)	(Instr. 4)	
						(Instr	· · · ·								
						4, and	15)								
											Amount				
								Data	Expiration		or				
								Date Exercisable	*	Title	Number				
								Exercisable	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

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- * 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) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on December 6, 2012.
- This transaction was executed in multiple trades at prices ranging from \$58.40 to \$59.11. The price reported above reflects the weighted average sales price. The Reporting (2) 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.
- (3) Each restricted stock unit ("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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