## FORM 4

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

OMB APPROVAL
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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).

#### 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

ORPORATIO /E eeet)	Middle) DN, ONE	3. Date of 07/01/2	f Earliest	R CC t Trans	RP [	KLA	AC]		-	Directo	(Che	ow)(	able) 10% Owner Other (specify b			
ORPORATIO /E eeet)	ON, ONE	07/01/2	2013		saction	n (Mo	onth/Day	/Year)		X_ Office				elow)		
ate)	(Zip)	4. If Amo	endment,	_			3. Date of Earliest Transaction (Month/Day/Year) 07/01/2013						X Officer (give title below) Other (specify below)  EVP & Chief Financial Officer			
· ·	(Zip)	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting PersonForm filed by More than One Reporting Person								
2. Tra			Ta	able I	- Non	-Der	ivative S	Securities	Acqui	red, Dispo	sed of, or I	Beneficially (	Owned			
1.Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Year)		/		(Instr. 8)		ction	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)		Ownership of Form:	Beneficial			
					ode	V	Amoun	(A) or t (D)	Price	or Inc (I)		or Indirect (I)	Ownership (Instr. 4)			
07/0	1/2013			S	(1)		35	D	\$ 56.45	1,000 (2	)		D			
icted										84,400	<u>(4)</u>		D			
ate line for each	Table II - I	Derivativo	e Securit	ies Ac	equire	Pers conta the f	ons whained in orm dis	o respo n this for splays a	rm are currer reficiall	not requ Itly valid	ired to res	pond unle	ss	1474 (9-02)		
e onth/Day/Year)	3A. Deemed Execution Dat any	4. Tran Coc/ear) (Ins	nsaction le tr. 8)	5. Numb of Deriv Secur Acqui (A) of Dispo of (D) (Instr 4, and	rative rities ired rosed ) . 3, . 15)	6. Da and I (Mon	ate Exercises	cisable on Date Year)	7. Ti Amoo Unde Secu (Instr 4)	unt of erlying rities r. 3 and Amount or Number of	8. Price of Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported	Ownersl Form of Derivati Security Direct (I or Indirect)	Beneficia Ownershi (Instr. 4)		
	ransaction e onth/Day/Year)	Table II - I  Transaction a control Day/Year)  Table II - I  Transaction and Execution Day  Transaction any	Table II - Derivative (e.g., puts, and puts)  Table II - Derivative	Table II - Derivative Securities beneficially or table II - Derivative Securities beneficially or table III - Derivative Securities.  Table II - Derivative Securities beneficially or table III - Derivative Securities.  (e.g., puts, calls, w. table III - Derivative Securities.	Table II - Derivative Securities Ac (e.g., puts, calls, warran (e.g., puts, calls, warran (month/Day/Year))  Stransaction Execution Date, if any (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)	Table II - Derivative Securities Acquire (e.g., puts, calls, warrants, optometrians action empth/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)	ate line for each class of securities beneficially owned directly or in the formula of the following part of t	ate line for each class of securities beneficially owned directly or indirectly  Table II - Derivative Securities Acquired, Disposed of (e.g., puts, calls, warrants, options, converted any (Month/Day/Year)  Table II - Derivative Securities Acquired, Disposed of (e.g., puts, calls, warrants, options, converted any (Month/Day/Year)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)  Table II - Derivative Securities Acquired, Disposed of (Instr. 8)	Table II - Derivative Securities Acquired, Disposed of, or Bergonthi/Day/Year)  Table II - Derivative Securities Acquired, Disposed of, or Bergonthi/Day/Year)  Table II - Derivative Securities Acquired, Disposed of, or Bergonthi/Day/Year)  Table II - Derivative Securities Acquired, Disposed of, or Bergonthi/Day/Year)  Table II - Derivative Securities Acquired, Disposed of, or Bergonthi/Day/Year)  Table II - Derivative Securities Acquired (A) or Disposed of (D) (Instr. 8)  Table II - Derivative Securities Acquired (A) or Disposed of (D) (Instr. 8)  Date Expiration Date (Month/Day/Year)  Date Expiration Date (Expiration Date (D) (Instr. 3, 4, and 5)	Code   V   Amount   Or   Price	Code   V   Amount   Or   Price	Code   V   Amount   (D)   Price	Code   V   Amount   Or   Price	Code   V   Amount   Or   Or   Price   (I)   (Instr. 4)		

	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	07/03/2013

**Signature of Reporting Person	Date
—Signature of Reporting Person	

## **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) This sale was effected pursuant to the terms of a Rule 10b5-1 trading plan adopted by the Reporting Person on December 6, 2012.
- (2) Includes 474 shares of KLA-Tencor common stock acquired by the Reporting Person under the KLA-Tencor Employee Stock Purchase Plan on June 30, 2013.
- (3) 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 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.

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.