FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
hours per response... 0.5

5. Relationship of Reporting Person(s) to Issuer

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

1. Name and Address of Reporting Person*

(Print or Type Responses)

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

2. Issuer Name and Ticker or Trading Symbol

DICKSO	N JOHN T]	KLA TI	EN(COR	CORI	P [KLA	.C]			х	Director	(Checi	an appneat 10	% Owner	
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 07/29/2014									e title below)		her (specify be	low)	
(Street) MILPITAS, CA 95035				4. If Amendment, Date Original Filed(Month/Day/Year) 6. Individual or Joint/Group Filing(Check Applicable _X_Form filed by One Reporting PersonForm filed by More than One Reporting Person									Line)				
(City) (State) (Zip)				Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned													
1.Title of Security (Instr. 3)		Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr.	nsaction 8)	(A) or Disp		sed of (D)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)			Ownership Form:	7. Nature of Indirect Beneficial Ownership		
				(Monun/1	Јау/	r ear)	Cod	le V	Amo	(A) or (D)	Price	(Ins	tr. 3 and 2	+)		Direct (D) or Indirect (I) (Instr. 4)	(Instr. 4)
Common	Stock		07/29/2014				M		1,23	50 A	\$ 56.79	1,2	50			D	
Common Stock			07/29/2014			S		1,2:	50 D	\$ 72.189	0				D		
Common	Stock		07/29/2014				M		1,23	50 A	\$ 52.84	1,2	50			D	
Common Stock 07/2			07/29/2014				S		1,23	50 D	\$ 72.14	1 0	0			D	
Common Stock												19,	19,975			I	By Trust
Common Stock - Restricted Stock Units (3)												1,8	1,856			D	
								disp juired, D	olays	a current	ly valid (eneficially	OMB (control r	unless the	e form		
1. Title of Derivative Security (Instr. 3)	e of Litive Conversion ty Price of Derivative Security Security Security Response Security Security Response Security Se		ivative urities urited or cosed D) tr. 3, 4,	6. Date Expirati	5. Date Exercisable and F. T Expiration Date Section Month/Day/Year) Section 5. Date Exercisable and F. T Section 5. Date Exercisable 5.		7. Titl of Un Secur	Title and Amount Underlying parities str. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form of Deriva Securit Direct or Indi	tive Ownersl (y: (Instr. 4) (D) rect				
				Code	V	(A)	(D)	Date Exercisa		Expiration Date	Title		Amount or Number of Shares				
Non- Qualified Stock Option (Right to Buy)	\$ 56.79	07/29/2014		М			1,250	(4)	1 (07/31/20	Com Sto		1,250	\$ 0	0	D	
Non- Qualified Stock Option (Right to Buy)	\$ 52.84	07/29/2014		М			1,250	(5)	1	10/30/20	Com Sto		1,250	\$ 0	0	D	

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
DICKSON JOHN T C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	X						

Signatures

Brian M. Martin as Attorney-in-Fact for John T. Dickson	07/31/2014		
**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 \$72.16 to \$72.20. The price reported above reflects the weighted-average sales price. The Reporting Person hereby (1) 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 affected
- (2) Shares held under The Dickson Family Trust Agreement dated October 24, 2006, a trust of which the Reporting Person is a trustee and beneficiary.
- (3) Each restricted stock unit ("RSU") represents a contingent right to receive one share of KLA-Tencor common stock.
- (4) Represents a stock option granted on July 31, 2007, granting the Reporting Person the right to purchase up to 1,250 shares of KLA-Tencor common stock. All of the shares subject to this stock option vested immediately and were exercisable on July 31, 2007.
- (5) Represents a stock option granted on October 30, 2007, granting the Reporting Person the right to purchase up to 1,250 shares of KLA-Tencor common stock. All of the shares subject to this stock option vested immediately and were exercisable on October 30, 2007.

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.