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

AS, CA 95	(First) GY DRIVE (Street) 035 (State)	(Middle) (Zip)	2. Issuer Name KLA TENCO 3. Date of Earlie 10/16/2014 4. If Amendmen	OR CC	ORP [KL	AC]			Directe	(Che or er (give title belo		able) 10% Owner Other (specify b			
AS, CA 95	GY DRIVE (Street)		10/16/2014			ı (Mo	onth/Day	/Year)		X_ Office		ow)		pelow)		
)	035	(Zip)	4. If Amendmen	t, Date	Origin	3. Date of Earliest Transaction (Month/Day/Year) 10/16/2014						X Officer (give title below) Other (specify below) EVP & Chief Financial Officer				
	(State)	(Zip)				ıal Fi	led(Month	/Day/Year))	_X_ Form file	ed by One Repo	Group Filing orting Person One Reporting	**	ble Line)		
ecurity			Table I - Non-Derivative Securit				ecuritie	s Acqu	cquired, Disposed of, or Beneficially Owned							
(Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	if Cod	(Instr. 8)		4. Securities Acquire (A) or Disposed of (I (Instr. 3, 4 and 5)		of (D)	Beneficially Owned Following Reported Transaction(s)			Ownership of Form:	Beneficial		
					ode	V	Amoun	(A) or (D)	Price	(Instr. 3 a	nd 4)		or Indirect (Instr	Ownership (Instr. 4)		
Stock		10/16/2014		S	(1)		3,201	D	\$ 66.33	693			D			
Stock		10/16/2014		S	(1)		693	D	\$ 68	0			D			
	estricted									30,052	(3)		D			
Report on a s	eparate line for				I c	Pers cont the f	ons wh ained ir orm dis	o respo this fo plays a	orm are	not requesting ntly valid	ired to res	pond unle	ss	1474 (9-02)		
		(e.g., puts, calls, v	varrant	ts, opt	ions	, convert	ible secu	urities)							
Conversion or Exercise Price of	Date	Year) Execution Da	te, if Transaction Code	ransaction Number of		and Expiration Date (Month/Day/Year)			Am Und Sec	mount of nderlying ecurities nstr. 3 and		Derivative Securities Beneficially Owned Following Reported	Owners Form of Derivati Security Direct (or Indirects)	Beneficia Ownershi (Instr. 4) D)		
			Code V	(A)					On Title	Amount or Number of Shares						
	2. Conversion or Exercise Price of Derivative	Stock Stock - Restricted it (2) Report on a separate line for Conversion or Exercise Price of Derivative	Stock 10/16/2014 Stock - Restricted it (2) Report on a separate line for each class of secur Table II - I Conversion or Exercise Price of Derivative (Month/Day/Year) Stock 10/16/2014 Table II - I (Month/Day/Year) AA. Deemed Execution Data any (Month/Day/Year)	Stock - Restricted it (2) Report on a separate line for each class of securities beneficially of the security Table II - Derivative Securities beneficially of the security Table II - Derivative Securities beneficially of the securities beneficiall	Stock 10/16/2014 S Stock - Restricted it (2) Report on a separate line for each class of securities beneficially owned (e.g., puts, calls, warran or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Instr. 8) 3. Transaction Date (Execution Date, if any (Month/Day/Year) (Instr. 8) 3. Transaction Date (Instr. 8)	Stock - Restricted it (2) Report on a separate line for each class of securities beneficially owned directl Table II - Derivative Securities Acquire (e.g., puts, calls, warrants, opt of Date (Month/Day/Year) Price of Derivative Security 3. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Instr. 8) Transaction Code (Instr. 8) Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Stock 10/16/2014 S(1) Stock - Restricted it (2) Report on a separate line for each class of securities beneficially owned directly or cont the f Table II - Derivative Securities Acquired, Director (e.g., puts, calls, warrants, options. 3. Transaction One Exercise Price of Derivative Security (Month/Day/Year) (Month/Day/Year) 3. 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Date Exercisable any (Month/Day/Year) (Instr. 8) Which is a privative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) Date Expiration Date (Instr. 3, 4, and 5) Date Expiration Title Exercisable Title Exercisable Expiration Title Exercisable Title Exercisa	Stock 10/16/2014 S(1) 3,201 D S 66.33 693 Stock 10/16/2014 S(1) 693 D S 68 0 Stock - Restricted it (2) Persons who respond to the collect contained in this form are not require from displays a currently valid for Exercise Price of Derivative Securities (Month/Day/Year) 3. Transaction Date (e.g., puts, calls, warrants, options, convertible securities) 2. Conversion or Exercise (Month/Day/Year) 3. Transaction Date (Month/Day/Year) (Month/Day/Year) 3. Transaction Date (instr. 8) 3. 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Deemed and Expiration Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Instr. 3) A. and A. and S) (Instr. 3) A. and A. and S) (Instr. 4) Date Expiration Date (A. and S) (Instr. 4) Date Expiration Date (A. and S) (Instr. 4) Date Expiration Date (Month/Day/Year) (Instr. 4) Date Expiration Date (Instr. 3) A. and S) (Instr. 4) Date Expiration Date (Instr. 4) Date Expiration Title of Number of		

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Higgins Bren D. ONE TECHNOLOGY DRIVE MILPITAS, CA 95035			EVP & Chief Financial Officer					

Signatures

Brian M. Martin as Attorney-in-Fact for Bren D. Higgins

10/17/2014

**Circustume of Demonting Demon	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 a Rule 10b5-1 trading plan adopted by the Reporting Person on May 7, 2014.
- (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 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.