FORM	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).

(Print or Type Pesponses)

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

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SEC 1474 (9-02)

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 LEVY KENNETH	2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [klac]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) C/O KLA-TENCO	3. Date of Earliest Transaction (Month/Day/Year) 10/16/2006						X_Officer (give title below) Other (specify below) Chairman of the Board				
SAN JOSE, CA 95	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Acqu						ired, Disposed of, or Beneficially	Owned	
		Execution Date, if	Code				of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form:	7. Nature of Indirect 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)

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.

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

(<i>e.g.</i> , puts, caus, warrants, options, convertible securities)															
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	Transacti	on	Numl	ber	er and Expiration Date		Amount of		Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code		of		(Month/Day/Year)		Underlying		Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	ative	e		Securities		(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Secur	rities			(Instr. 3 and			Owned	Security:	(Instr. 4)
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) o	r						Reported	or Indirect	
						Disposed						Transaction(s)	(I)		
						of (D	· · · · · · · · · · · · · · · · · · ·						(Instr. 4)	(Instr. 4)	
						(Instr	· · · ·								
						4, and	15)								
											Amount	1			
								Dete	Down in the se		or				
									Expiration	Title	Number				
								Exercisable	ercisable Date		of				
				Code	V	(A)	(D)				Shares				

Reporting Owners

	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
LEVY KENNETH C/O KLA-TENCOR 160 RIO ROBLES SAN JOSE, CA 95134	Х		Chairman of the Board						

Signatures

Kenneth Levy	10/18/2006
**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).

Remarks:

In connection with his retirement, Mr. Levy resigned as a director, officer and employee of the company, effective October 16, 2006.

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.