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).

(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

(1 Till of Type Responses)											
1. Name and Address of Reporting Person- 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) (First) C/O KLA-TENCOR CORPORAT	3. Date of Earliest Transaction (Month/Day/Year) 05/20/2004						X Officer (give title below) Other (specify below) Chairman of the Board				
ROBLES	03/20/2007										
(Street)	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person				
SAN JOSE, CA 95130											
(City) (State)	(Zip)	Table I - Non-Derivative Securities Acqu						nired, Disposed of, or Beneficially Owned			
1.Title of Security 2. Transactio (Instr. 3) Date (Month/Day/			(Instr. 8)		4. Securities Acquired (A or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial	
		(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Ownership (Instr. 4)		
Common Stock	05/20/2004		M		15,000	A	\$ 9.31	39,142	D		
Common Stock	05/20/2004		S		15,000	D	\$ 45.1833	24,142	D		
Common Stock								358,000	I	KGMW, LP	
Common Stock								40,000	I	Levy Fam. Foundation	
Common Stock								1,783,366	I	by Levy Fam. Trust	
Common Stock								4,000	I	by Mark Levy Trust	
Common Stock								6,000	I	by Wayne Levy Trust	
Reminder: Report on a separate line for each	ch class of securities l	beneficially owned	directly or i		•						
				in	this forn	n are n	ot require	ne collection of information conta d to respond unless the form dis rol number.		EC 1474 (9-02)	
	Table I	I - Derivative Secu (e.g., puts, calls,						Owned			

1. Title of 3A. Deemed 5. Number 6. Date Exercisable and 7. Title and Amount 8. Price of 9. Number of 11. Nature 3. Transaction Derivative of Underlying Derivative Derivative Ownership Execution Date, if Transaction of Derivative Expiration Date of Indirect Conversion Date (Month/Day/Year) Securities Form of Security or Exercise Code (Month/Day/Year) Securities Security Securities Beneficial (Month/Day/Year) (Instr. 5) Beneficially (Instr. 3) Price of (Instr. 8) Acquired (A) (Instr. 3 and 4) Derivative Ownership Derivative or Disposed Owned Security: (Instr. 4) Security of (D) Following Direct (D) (Instr. 3, 4, Reported or Indirect and 5) Transaction(s) (Instr. 4) (Instr. 4) Amount Date Expiration Title Exercisable Date Number V (A) Code (D) of Shares Non-Qualified Stock Common \$ 9.31 05/20/2004 15,000 07/26/1999 07/26/2004 15,000 25,000 D M 45.1833 Option Stock (right to buy) Non-Qualified Stock \$ 10.63 08/31/1999 08/31/2008 Common 204,272 204,272 D Option Stock (right to buy)

Non-										
Qualified Stock Option (right to buy)	\$ 10.81			10/07/1997	10/08/2006	Common Stock	125,000	125,000	D	
Non- Qualified Stock Option (right to buy)	\$ 16.97			10/23/1999	10/23/2008	Common Stock	220,728	220,728	D	
Non- Qualified Stock Option (right to buy)	\$ 26.25			11/10/2001	11/10/2010	Common Stock	18,951	18,951	D	
Non- Qualified Stock Option (right to buy)	\$ 29.31			10/02/2002	10/02/2011	Common Stock	28,425	28,425	D	
Non- Qualified Stock Option (right to buy)	\$ 32.75			04/04/2002	04/04/2011	Common Stock	18,951	18,951	D	
Non- Qualified Stock Option (right to buy)	\$ 33.75			10/27/2000	10/27/2009	Common Stock	90,000	90,000	D	
Non- Qualified Stock Option (right to buy)	\$ 34.67			11/08/2003	01/28/2013	Common Stock	15,724	15,724	D	
Non- Qualified Stock Option (right to buy)	\$ 37.05			11/08/2003	11/08/2012	Common Stock	7,863	7,863	D	
Non- Qualified Stock Option (right to buy)	\$ 44.6875			08/13/2000	08/13/2010	Common Stock	37,901	37,901	D	
Non- Qualified Stock Option (right to buy)	\$ 45.16			10/27/2004	04/26/2014	Common Stock	7,500	7,500	D	
Non- Qualified Stock Option (right to buy)	\$ 51.229			11/08/2003	07/30/2013	Common Stock	7,863	7,863	D	

Non- Qualified Stock Option (right to buy)	\$ 53.86			10/27/2004	10/27/2013	Common Stock	12,000	12,000	D	
Non- Qualified Stock Option (right to buy)	\$ 58.10			10/27/2004	01/27/2014	Common Stock	6,000	6,000	D	

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
LEVY KENNETH C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X		Chairman of the Board					

Signatures

By: Stuart J. Nichols For: Kenneth Levy	05/20/2004	
**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).

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.