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

(Print or Tyr	e Responses)														
Name and Address of Reporting Person * MARKS MICHAEL E				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) (Middle) C/O KLA-TENCOR CORPORATION, 160 RIO ROBLES				3. Date of Earliest Transaction (Month/Day/Year) 05/11/2005							_		give title below)		er (specify below	v)
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year)								6. Individual or Joint/Group FilingCheck Applicable Line) _X_ Form filed by One Reporting Person _Form filed by More than One Reporting Person				
	SE, CA 951		(7:)										, more man one	reporting reison		
(City	7)	(State)	(Zip)			1	Γable	I - Non-Der	iva	tive Securities	Acquire	d, Dispos	ed of, or Bene	ficially Owne	ed	
(Instr. 3) Date			2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, if any (Month/Day/Year)			(Instr. 8)		I. Securities Acqui A) or Disposed of Instr. 3, 4 and 5)		f (D) O	Transaction(s) Form (Instr. 3 and 4)		Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Co	ode V A	۱m		Price				(Instr. 4)	
Reminder: I	Report on a so	eparate line for each						Person in this display	ns v for ys a	who respond rm are not re a currently v	quired talid OM	o respon B contro	d unless the		ed SEC	1474 (9-02)
		T .	1	(e.g., pu		alls, wa	rrant	ts, options, co	onv	ertible securit	ties)					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amor of Underlying Securities (Instr. 3 and 4)			9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownersh Form of Derivativ Security: Direct (I or Indire	(Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable		Expiration Date	Title	Amou or Numb of Share	er			
Non- Qualified Stock Option (right to buy)	\$ 40.24	05/11/2005		A		2,500		05/11/200	15	05/11/2015	Comm Stocl	2.50	0 \$0	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 40.68							10/18/200	14	10/18/2014	Comm Stock	1 / 70	0	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 44.76							01/25/200	5	01/25/2015	Comm Stock		0	2,500	D	
Non- Qualified Stock Option (right to buy)	\$ 59.44							11/05/200	13	11/05/2013	Comm Stocl	110 00	00	10,000	D	

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
MARKS MICHAEL E C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130	X						

Signatures

By: Stuart J. Nichols For: Michael Marks	05/11/2005
**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.