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

	OMB APPROVAL								
	OMB Number:	3235-0362							
	Estimated average bu	rden							
S	hours per response	1.0							

subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b). Form 3 Holdings Reported

Form 4 Transactions

Reported

#### ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES hours per response...

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. Name and Address of Ro MARKS MICHAEL	1 0	2. Issuer Name <b>and</b> 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)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)				Officer (give title below) Ot	ther (specify belo	ow)			
a/a *** / ### **	460 540 505		06/30/2005									
C/O KLA-TENCOR,	160 RIO ROB	LES										
	(Street)	•	4. If Amendment, Date Original Filed(Month/Day/Year)				6. Individual or Joint/Group Reporting (check applicable line)					
SAN JOSE, CA 9513	4						_X_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person					
(City)	(State)	(Zip)	Т	able I - Non-Der	rivative S	ecurities	Acqui	quired, Disposed of, or Beneficially Owned				
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Date, if	Code (Instr. 8)	4. Securit (A) or Di (Instr. 3,	isposed of 4 and 5) (A) or	f(D)	(Instr. 3 and 4)	Ownership	Beneficial Ownership		

owned directly or indirectly.

Reminder: Report on a separate line for each class of securities beneficially 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.

SEC 2270 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	5. Numi of Deriv Secur Acqu (A) o Dispo of (D (Instr 4, and	vative rities ired rosed	6. Date Exercisable and Expiration Date (Month/Day/Year)  7. Title and Amount of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned at End of Issuer's	Ownership	Beneficial		
					(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option	\$ 40.24						05/11/2005	05/11/2015	Common Stock	2,500		2,500	D	
Non- Qualified Stock Option	\$ 40.68						10/18/2004	10/18/2014	Common Stock	2,500		2,500	D	
Non- Qualified Stock Option	\$ 44.76						01/25/2005	01/25/2015	Common Stock	2,500		2,500	D	
Non- Qualified Stock Option	\$ 59.44						11/05/2003	11/05/2013	Common Stock	10,000		10,000	D	

### **Reporting Owners**

	Relationships					
Reporting Owner Name /	Director	10% Owner	Officer	Other		
Address						

|--|

# Signatures

Michael E. Marks	08/03/2005
**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 provided 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.