FORM	5
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_	Check this box if no longer	
	subject to Section 16. Form 4	
	or Form 5 obligations may	A
	continue. See Instruction 1(b).	
-	Form 3 Holdings Reported	

-	Form 4 Transactions
	Reported

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

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

in nume and made by or neporting renoon			2. Issuer Name <b>and</b> T KLA TENCOR C		Symbol			5. Relationship of Reporting Person(s) (Check all applica Director			
(Last)	(First)	(	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 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 95134								_X_Form Filed by One Reporting Person Form Filed by More than One Reporting Person			
(City)	(State)	(Zip)	Ta	Table I - Non-Derivative Securities Acqu				quired, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	(Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		of (D)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership	
					Amount	(A) or (D)	Price		or Indirect (I) (Instr. 4)		
Common Stock								3,551	D		
Common Stock-Rest Units	ricted Stock							41,111	D		

Reminder: Report on a separate line for each class of securities beneficially Persons who respond to the collection of information contained in this form owned directly or indirectly. SEC 2270 (9-02) 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

	(e.g., puts, calls, warrants, options, convertible securities)													
1. Title of							7. Title and		8. Price of	9. Number	10.	11. Nature		
Derivative			Execution Date, if		Num	ber	Expiration Dat		of Underlying		Derivative		Ownership	
Security	or Exercise	(Month/Day/Year)		Code	of		(Month/Day/Y	ear)			Security	Derivative		Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Deriv				(Instr. 3 and	4)	(Instr. 5)	Securities	Derivative	
	Derivative				Secu							Beneficially		(Instr. 4)
	Security				Acqu							Owned at End of	Direct (D)	
					(A) o Dispo							End of Issuer's	or Indirect (I)	
					of (D								(1) (Instr. 4)	
					(Instr							(Instr. 4)	(Insu: I)	
					4, an							(		
										Amount				
							D (	Б · ./-		or				
							Date Exercisable	Expiration Date	Title	Number				
							Excicisable	Date		of				
					(A)	(D)				Shares				
Non-														
Qualified									Common				_	
Stock	\$ 26.25						11/10/2001	11/10/2010	Stock	7,000		7,000	D	
Option									STOCK					
-														
Non-														
Qualified	\$ 20.31						10/02/2002	10/02/2011	Common Stock	25 500		25,500	D	
Stock	$\psi 2 j. j 1$						10/02/2002	10/02/2011	Stock	25,500		23,300	D	
Option														
Non-														
Qualified									Common					
Qualified Stock	\$ 32.75						04/04/2002	04/04/2011		8,459		8,459	D	
Stock									Stock					
Option														
Non-														
Qualified	0.04.67						11/00/0000	01/00/0010	Common Stock	20.000		20.000	D	
Stock	\$ 34.67						11/08/2003	01/28/2013	Stock	20,000		20,000	D	
Option									Stoth					
Non-														
Qualified Stock	\$ 37.05						11/08/2003	11/08/2012	Common	10,000		10,000	D	
Stock	φ 57.05						11/08/2003	11/06/2012	Stock	10,000		10,000	D	
Option														
1														

Non- Qualified Stock Option	\$ 40.14			05/22/2004	05/22/2013	Common Stock	1,000	1,000	D	
Non- Qualified Stock Option	\$ 40.66			10/27/2004	08/02/2014	Common Stock	11,250	11,250	D	
Non- Qualified Stock Option	\$ 41.79			09/21/2005	09/21/2014	Common Stock	75,000	75,000	D	
Non- Qualified Stock Option	\$ 44.6875			08/13/2000	08/13/2010	Common Stock	19,169	19,169	D	
Non- Qualified Stock Option	\$ 45.16			10/27/2004	04/26/2014	Common Stock	18,750	18,750	D	

## **Reporting Owners**

Departing Owner Name /	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
WALLACE RICHARD P C/O KLA TENCOR 160 RIO ROBLES SAN JOSE, CA 95134			Executive Vice President						

## Signatures

Richard P. Wallace	08/11/2005
***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 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.