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

	OMB APPROVAL								
	OMB Number:	3235-0362							
	Estimated average burden								
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 NICHOLS STUART		2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [klac]					5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last)	(First)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2005					X_ Officer (give title below) Other (specify below) VP and General Counsel			
C/O KLA-TENCOR CORP., 160 RIO ROBLES			0,20,200								
(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)	T	able I - Non-Der	ivative So	ecurities	Acqui	red, Disposed of, or Beneficially Ow	ned		
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	(Instr. 8)	4. Securi (A) or Di (Instr. 3,	(A) or	f(D)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	Ownership Form:	Beneficial Ownership	
Common Stock								2,511	D		

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)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if	Code	5.	per vative rities ired rosed	Expiration Date (Month/Day/Year)		Expiration Date (Month/Day/Year)		Expiration Date (Month/Day/Year)		Expiration Date		7. Title and of Underlying Securities (Instr. 3 and	ng	8. Price of Derivative Security (Instr. 5)	Derivative Securities	Form of	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares										
Non- Qualified Stock Option	\$ 26.25						11/10/2001	11/10/2010	Common Stock	4,300		4,300	D							
Non- Qualified Stock Option	\$ 29.31						10/02/2002	10/02/2011	Common Stock	12,000		12,000	D							
Non- Qualified Stock Option	\$ 32.75						04/04/2002	04/04/2011	Common Stock	6,000		6,000	D							
Non- Qualified Stock Option	\$ 33.75						10/27/2000	10/27/2009	Common Stock	21,000		21,000	D							
Non- Qualified Stock Option	\$ 34.67						11/08/2003	01/28/2013	Common Stock	6,500		6,500	D							

Non- Qualified Stock Option	\$ 37.05		11/08/2003	11/08/2012	Common Stock	3,250	3,250	D	
Non- Qualified Stock Option	\$ 40.66		10/27/2004	08/02/2014	Common Stock	2,250	2,250	D	
Non- Qualified Stock Option	\$ 41.79		09/21/2005		Common Stock	15,000	15,000	D	
Non- Qualified Stock Option	\$ 44.6875		08/13/2001		Common Stock	12,000	12,000	D	
Non- Qualified Stock Option	\$ 45.16		10/27/2004	104/70/7014	Common Stock	3,750	3,750	D	
Non- Qualified Stock Option	\$ 51.229		11/08/2003		Common Stock	3,250	3,250	D	
Non- Qualified Stock Option	\$ 53.86		10/27/2004		Common Stock	6,000	6,000	D	
Non- Qualified Stock Option	\$ 58.10		10/27/2004		Common Stock	3,000	3,000	D	

Reporting Owners

Penarting Owner Name /	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
NICHOLS STUART J C/O KLA-TENCOR CORP. 160 RIO ROBLES SAN JOSE, CA 95134			VP and General Counsel					

Signatures

Stuart J. Nichols	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.