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

	OMB APPROVAL								
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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 Rep NICHOLS STUART J	2. Issuer Name and T KLA TENCOR C					5. Relationship of Reporting Person(s) (Check all applica						
	(First)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2006					X Officer (give title below) Other (specify below) VP and General Counsel				
160 RIO ROBLES												
(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)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Date, if	(Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price		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								3,200 (1)	D			
Common Stock - Restr Units	ricted Stock							8,300	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.

Persons who respond to the collection of information contained in this form owned directly or indirectly. 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)	Conversion	Date (Month/Day/Year)	3A. Deemed Execution Date, if	Code	5.	ber vative rities prosed or osed o) : 3,	6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					(A)	(D)	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	09/21/2014	Common Stock	15,000	15,000	D	
Non- Qualified Stock Option	\$ 44.6875		08/13/2001	08/13/2010	Common Stock	12,000	12,000	D	
Non- Qualified Stock Option	\$ 45.16		10/27/2004	04/26/2014	Common Stock	3,750	3,750	D	
Non- Qualified Stock Option	\$ 47.95		09/26/2006	09/26/2012	Common Stock	15,000	15,000	D	
Non- Qualified Stock Option	\$ 51.229		11/08/2003	07/30/2013	Common Stock	3,250	3,250	D	
Non- Qualified Stock Option	\$ 53.86		10/27/2004	10/27/2013	Common Stock	6,000	6,000	D	
Non- Qualified Stock Option	\$ 58.10		10/27/2004	01/27/2014	Common Stock	3,000	3,000	D	

Reporting Owners

Deporting Owner Name /	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
NICHOLS STUART J								
160 RIO ROBLES			VP and General Counsel					
SAN JOSE, CA 95134								

Signatures

Stuart J. Nichols	08/11/2006
**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).
- (1) Includes 689 shares acquired through the Employee Stock Purchase Plan during the fiscal year.

Remarks:

Voluntary filing to report all holdings as of 6/30/2006

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.