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 runne und rudness of responsing renson			2. Issuer Name and T KLA TENCOR C	•	Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) 160 RIO ROBLES	(First)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2006) X_Officer (give title below)Other (specify below) Executive Vice President				
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Y			Year)		6. Individual or Joint/Group Reporting (check applicable line) X Form Filed by One Reporting Person				
SAN JOSE, CA 95134								Form Filed by More than One Reporting Person				
(City)	(State)	(Zip)	Ta	able I - Non-Der	ivative Se	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. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) Amount (D) Price		of (D)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	Ownership Form:	Beneficial Ownership		
Common Stock								4,125 <u>(1)</u>	D			
Common Stock - Res Units	stricted Stock							33,333	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**

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(<i>e.g.</i> , puts, calls, warrants, options, convertible securities)													
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	Number 1		6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) (Instr. 3 and 4)		ng	Derivative	of Derivative Securities Beneficially Owned at End of Issuer's	Form of	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option	\$ 10.63						08/31/1999	08/31/2008	Common Stock	5,000		5,000	D	
Non- Qualified Stock Option	\$ 26.25						11/10/2001	11/10/2010	Common Stock	5,000		5,000	D	
Non- Qualified Stock Option	\$ 29.31						10/02/2002	10/02/2011	Common Stock	22,500		22,500	D	
Non- Qualified Stock Option	\$ 32.75						04/04/2002	04/04/2011	Common Stock	5,000		5,000	D	
Non- Qualified Stock Option	\$ 33.75						10/27/2000	10/27/2009	Common Stock	20,000		20,000	D	

Non- Qualified Stock Option	\$ 34.67		11/08/2003	01/28/2013	Common Stock	9,000	9,000	D	
Non- Qualified Stock Option	\$ 37.05		11/08/2003	11/08/2012	Common Stock	4,500	4,500	D	
Non- Qualified Stock Option	\$ 40.66		10/27/2004	08/02/2014	Common Stock	3,750	3,750	D	
Non- Qualified Stock Option	\$ 41.79		09/21/2005	09/21/2014	Common Stock	75,000	75,000	D	
Non- Qualified Stock Option	\$ 42.28		11/30/2000	11/30/2009	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option	\$ 44.6875		08/13/2000	08/13/2010	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option	\$ 45.16		10/27/2004	04/26/2014	Common Stock	6,250	6,250	D	
Non- Qualified Stock Option	\$ 47.95		09/26/2006	09/26/2012	Common Stock	75,000	75,000	D	
Non- Qualified Stock Option	\$ 51.229		11/08/2003	07/30/2013	Common Stock	4,500	4,500	D	
Non- Qualified Stock Option	\$ 53.86		10/27/2004	10/27/2013	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option	\$ 58.10		10/27/2004	01/27/2014	Common Stock	5,000	5,000	D	

Reporting Owners

Benerting Owner Name /	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Glasser Lance A 160 RIO ROBLES SAN JOSE, CA 95134			Executive Vice President					

Signatures

Lance Glasser	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 617 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.