FORM #	5
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-	Check this box if no longer	
	subject to Section 16. Form 4	
	or Form 5 obligations may	Ar
	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

BBBB			2. Issuer Name <b>and</b> T KLA TENCOR C	-	Symbol		5. Relationship of Reporting Person(s) (Check all applical X Director				
(Last) 160 RIO ROBLES	(First)		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2006					Officer (give title below) Of	her (specify belo	ow)	
100 RIO ROBLES											
(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	able I - Non-Der	ivative Se	curities	Acqui	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) (Amount (D) Price		of (D)	×	Ownership Form:	Beneficial Ownership	
Common Stock								1,000	D		
Common Stock - Restricted Stock Units								1,000	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	2.		3A. Deemed	4.	5.		6. Date Exerci		7. Title and		8. Price of		10.	11. Nature
Derivative	Conversion		Execution Date, if			ber	Expiration Dat		of Underlyin	ng	Derivative		Ownership	
Security	or Exercise	(Month/Day/Year)		Code	of		(Month/Day/Y	ear)			Security	Derivative	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Deriv				(Instr. 3 and 4) (Inst		(Instr. 5)	Securities		Ownership
	Derivative				Secu								Security:	(Instr. 4)
	Security				Acqu								Direct (D)	
					(A) o							End of Issuer's	or Indirect	
					Dispo of (D								(I) (Instr. 4)	
					(Instr						(Instr. 4		(1150.4)	
					4, and							(1130.4)		
					.,	)		1		Amount				
										or				
								Expiration	Title	Number				
							Exercisable	Date	THE	of				
					(A)	(D)				Shares				
Non-														
									C					
Qualified	\$ 37.05						11/08/2002	11/08/2012	Common	10,000		10,000	D	
0.00011									Stock	ĺ ĺ		,		
Option														
Non-														
Qualified									Common					
Stock	\$ 40.24						05/11/2005	05/11/2015	Stock	2,500		2,500	D	
000011									SIUCK					
Option														
Non-														
Qualified	\$ 10.69						10/18/2004	10/19/2014	Common	2,500		2 500	D	
Stock	\$ 40.08						10/18/2004	10/18/2014	Stock	2,500		2,500	D	
Option														
-														
Non-														
Qualified	\$ 11 76						01/25/2005	01/25/2015	Common	2,500		2,500	D	
Stock	\$ 44.70						01/23/2005	01/23/2015	Stock	2,300		2,300	D	
Option														
Non-									~					
Qualified Stock	\$ 47 86						05/02/2006	05/02/2013	Common	1,250		1,250	D	
Stock	φ τ /.00						05/02/2000	05/02/2015	Stock	1,250		1,230	D	
Option														
r														

Non- Qualified Stock Option	\$ 49.99			11/04/2005	11/04/2012	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option	\$ 51.35			08/02/2005	08/02/2012	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option	\$ 51.98			01/31/2006	01/31/2013	Common Stock	1,250	1,250	D	
Non- Qualified Stock Option	\$ 59.44			11/05/2003	11/05/2013	Common Stock	10,000	10,000	D	

# **Reporting Owners**

Bonosting Owner Name /	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
KAUFMAN STEPHEN P 160 RIO ROBLES SAN JOSE, CA 95134	х						

## Signatures

Stephen P. Kaufman	08/14/2006
**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).

#### **Remarks:**

Voluntary filing of Form 5 to show 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.