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

OMB APPR	OVAL
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Estimated average	burden

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

11 Traine and Tradition of Treporting Ferson			2. Issuer Name and KLA TENCOR		g Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner			
(Last)	(First)	(Middle)	3. Statement for Issu	uer's Fiscal Year	Ended (M	onth/Da	y/Year	Officer (give title below)	Other (specify	below)
VIATENCOD 160) DIO DODI E		06/30/2004							
KLA TENCOR, 160	RIO ROBLE	3								
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)					6. Individual or Joint/Group Reporting (check applicable line)		
SAN JOSE, CA 951	34							_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		2. Transaction	2A. Deemed	3. Transaction	4. Securi	ties Acq	uired	5. Amount of Securities	6.	7. Nature of
(Instr. 3)		Date	Execution Date, if	Code	(A) or D	sposed of	of (D)	Beneficially Owned at end of	Ownership	Indirect
		(Month/Day/Year)	any	(Instr. 8)	(Instr. 3, 4 and 5)			Issuer's Fiscal Year	Form:	Beneficial
			(Month/Day/Year)					(Instr. 3 and 4)	Direct (D)	Ownership
									or Indirect	(Instr. 4)
						(A) or			(I)	
					Amount	(D)	Price		(Instr. 4)	
Common Stock								29,555		Family Foundation
Common Stock								1.271.414	I	by Trust

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

SEC 2270 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.	5.		6. Date Exerci	sable and	7. Title and	Amount	8. Price of	9. Number	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transaction	Num	ber	Expiration Dat		of Underlyi	ng	Derivative	of	Ownership	
Security	or Exercise	(Month/Day/Year)	any	Code	of		(Month/Day/Y	ear)	Securities		Security	Derivative	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Deriv	ative			(Instr. 3 and	(4)	(Instr. 5)	Securities	Derivative	Ownership
	Derivative				Secu	rities						Beneficially	Security:	(Instr. 4)
	Security				Acqu	ired						Owned at	Direct (D)	
					(A) o							End of	or Indirect	
					Dispo	osed						Issuer's	(I)	
					of (D							Fiscal Year	(Instr. 4)	
					(Instr							(Instr. 4)		
					4, and	d 5)								
										Amount				
							Date	Expiration		or				
							Exercisable	Date	Title	Number				
							Excicisable	Date		of				
					(A)	(D)				Shares				
Non-														
Qualified Stock									Common					
Quanneu	\$ 12.50						06/13/1996	05/13/2006		5,280		5,280	D	
Stock									Stock	Í				
Option														
Non-														
Qualified Stock									C					
Qualified	\$ 13.44						07/22/1999	07/22/2008	Common	5,000		5,000	D	
Stock							.,,,	.,,,	Stock	-,		-,		
Option														
NI														
Non-														
Qualified Stock	\$ 17 59						11/17/1998	11/17/2008	Common	6,666		6,666	D	
Stock	\$ 17.57						11/1//1//0	11/1//2000	Stock	0,000		0,000		
Option														
_														
Non-														
Qualified Stock	¢ 17.70						06/15/1005	05/15/2005	Common	1.046		1.046	D	
Stock	\$17.78						06/15/1995	05/15/2005	Stock	1,946		1,946	D	
Option									SIOUR					
Non-														
Qualified Stock									Common					
Stock	\$ 26.25						11/10/2000	11/10/2010	Stock	10,000		10,000	D	
									SIUCK					
Option														

Non- Qualified Stock Option	\$ 29			07/22/1998	07/22/2007	Common Stock	5,000	5,000	D	
Non- Qualified Stock Option	\$ 37.05			11/08/2002	11/08/2012	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option	\$ 46.28			11/16/1999	11/16/2009	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option	\$ 47.23			11/09/2001	11/09/2011	Common Stock	10,000	10,000	D	
Non- Qualified Stock Option	\$ 59.44			11/05/2003	11/05/2013	Common Stock	10,000	10,000	D	

Reporting Owners

Banarting Owner Name /	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
URBANEK LIDA KLA TENCOR 160 RIO ROBLES SAN JOSE, CA 95134	X						

Signatures

Lida Urbanek	08/11/2004
**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:

Form 5 filed to voluntarily report all holdings. No transactions to report.

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.