### FORM 5

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

	OMB APPROVAL									
	OMB Number:	3235-0362								
	Estimated average bu	rden								
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

Ti Tidane dia Tidaness of Itepoting Leisen			2. Issuer Name <b>and</b> KLA TENCOR		g Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner					
(Last)	(First)		3. Statement for Issu 06/30/2006	ier's Fiscal Year	Ended (M	onth/Day	Officer (give title below)	Other (specify	below)			
160 RIO ROBLES												
(Street)			4. If Amendment, D	ate Original File	d(Month/Day	y/Year)	6. Individual or Joint/Group Reporting (check applicable line)					
SAN JOSE, CA 9513	4							_X_ Form Filed by One Reporting Person Form Filed by More than One Reporting	Person			
(City)	(State)	(Zip)	r	Гable I - Non-De	erivative S	Securitie	uired, Disposed of, or Beneficially Owned					
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execution Date, if	Code (Instr. 8)	4. Securi (A) or Di (Instr. 3,	isposed of 4 and 5) (A) or	of (D)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership		
Common Stock								1,946	D			
Common Stock								29,555	I	Family Foundation		
Common Stock								1,271,414	Ι	by Trust		
Common Stock								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.

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)

	(e.g., puts, calls, warrants, options, convertible securities)													
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	(Month/Day/Year)		4. 5. Number Code of Unstr. 8) Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		e	of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	of Derivative Securities Beneficially Owned at End of Issuer's	Ownership Form of Derivative	Beneficial		
					(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option	\$ 13.44						07/22/1999	07/22/2008	Common Stock	5,000		5,000	D	
Non- Qualified Stock Option	\$ 17.59						11/17/1998	11/17/2008	Common Stock	6,666		6,666	D	
Non- Qualified Stock Option	\$ 26.25						11/10/2000	11/10/2010	Common Stock	10,000		10,000	D	
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	\$ 40.24		05/11/2005	05/11/2015	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option	\$ 40.68		10/18/2004	10/18/2014	Common Stock	2,500	2,500	D	
Non- Qualified Stock Option	\$ 44.76		01/25/2005	01/25/2015	Common Stock	2,500	2,500	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	\$ 47.86		05/02/2006	05/02/2013	Common Stock	1,250	1,250	D	
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	08/02/2015	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**

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

#### **Signatures**



## **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 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.