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

	OMB APPROVAL									
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	Estimated average bu	rden								
CS	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 Reporting Person * URBANEK LIDA			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 Issuer's Fiscal Year Ended (Month/Day/Year) 06/30/2005			Officer (give title below)	Other (specify	below)		
C/O KLA TENCOR	., 160 RIO RO	BLES								
(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)	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 any	(Instr. 8)	(A) or Disposed of (D)			5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year	Ownership Indirect Form: Beneficia	Beneficial
			(Month/Day/Year)		Amount (A) or (D) Price		Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock					1			1,946	D	
Common Stock					2			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 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)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	of	vative rities ired or osed	Expiration Date (Month/Day/Year)		Expiration Date of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5) General Securities Beneficially Owned at End of Issuer's Fiscal Year (Instr. 4)		vative Form of Derivative efficially Security: ned at of or Indirect (I) al Year (Instr. 4)	Beneficial Ownership (Instr. 4)
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option	\$ 12.50						06/13/1996	05/13/2006	Common Stock	280		280	D	
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	\$ 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 C/O KLA TENCOR 160 RIO ROBLES SAN JOSE, CA 95134	X						

Signatures

Lida Urbanek	08/03/2005
**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).

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.