

FORM 4

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

OMB APPROVAL
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person* URBANEK LIDA		2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [klac]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> 10% Owner <input type="checkbox"/> Other (specify below)	
(Last) (First) (Middle) C/O KLA TENCOR, 160 RIO ROBLES		3. Date of Earliest Transaction (Month/Day/Year) 08/02/2005			
(Street) SAN JOSE, CA 95134		4. If Amendment, Date Original Filed(Month/Day/Year)		6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock								1,946	D	
Common Stock								29,555	I	Family Foundation
Common Stock								1,271,414	I	by Trust

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Call Option (obligation to sell)	\$ 67.03	08/02/2005		J	(I)	0 (I)	08/04/2008	08/04/2008	Common Stock	100,000	(I)	0 (I)	I	by Trust
Put Option (right to sell)	\$ 43.79	08/02/2005		P		0 (I)	08/04/2008	08/04/2008	Common Stock	100,000	(I)	0 (I)	I	by Trust
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	\$ 51.35							08/02/2005	08/02/2015	Common Stock	2,500		2,500	D
Non-Qualified Stock Option	\$ 59.44							11/05/2003	11/05/2013	Common Stock	10,000		10,000	D

Reporting Owners

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

Signatures

Lida Urbanek	08/04/2005
<small>**Signature of Reporting Person</small>	<small>Date</small>

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) The reporting person entered into a "zero-cost collar" arrangement pursuant to which she wrote a covered call option and purchased a put option. Only one of the options can be in the money on the expiration date, at which time the in-the-money option will be exercised (and settled for cash), and the other option will expire.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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