

Non-Qualified Stock Option (right to buy)	\$ 26.25	01/29/2004					M				2,250	11/10/2001	11/10/2010	Common Stock	2,250	\$ 56.548	8,250	D
Non-Qualified Stock Option (right to buy)	\$ 29.31	01/29/2004					M				4,500	10/02/2002	10/02/2011	Common Stock	4,500	\$ 56.548	24,750	D
Non-Qualified Stock Option (right to buy)	\$ 32.75	01/29/2004					M				2,250	04/04/2002	04/04/2011	Common Stock	2,250	\$ 56.548	10,125	D
Non-Qualified Stock Option (right to buy)	\$ 33.75	01/29/2004					M				30,000	10/27/2000	10/27/2009	Common Stock	30,000	\$ 56.548	30,000	D
Non-Qualified Stock Option (right to buy)	\$ 34.67	01/29/2004					M				5,833	11/08/2003	01/28/2013	Common Stock	5,833	\$ 56.548	19,167	D
Non-Qualified Stock Option (right to buy)	\$ 37.05	01/29/2004					M				2,916	11/08/2003	11/08/2012	Common Stock	2,916	\$ 56.548	9,584	D
Non-Qualified Stock Option (right to buy)	\$ 40.14											05/22/2004	05/22/2013	Common Stock	1,000		1,000	D
Non-Qualified Stock Option (right to buy)	\$ 44.6875											08/13/2000	08/11/2010	Common Stock	5,370		5,370	D
Non-Qualified Stock Option (right to buy)	\$ 44.6875											08/13/2001	08/13/2010	Common Stock	39,630		39,630	D
Non-Qualified Stock Option (right to buy)	\$ 51.229											11/08/2003	07/30/2013	Common Stock	12,500		12,500	D
Non-Qualified Stock Option (right to buy)	\$ 53.86											10/27/2004	10/27/2013	Common Stock	30,000		30,000	D

Non-Qualified Stock Option (right to buy)	\$ 58.10							10/27/2004	01/27/2014	Common Stock	15,000		15,000	D	
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
FORTINO DENNIS J C/O KLA-TENCOR CORPORATION 160 RIO ROBLES SAN JOSE, CA 95130			Executive Vice President	

Signatures

By: Stuart J. Nichols For: Dennis J. Fortino		01/30/2004
<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).

Note: File three copies of this Form, one of which must be manually signed. If space 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.