

Cohen Shai
Form 4
October 31, 2007

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

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, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
Cohen Shai

2. Issuer Name and Ticker or Trading Symbol
Mellanox Technologies, Ltd.
[MLNX]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
10/29/2007

____ Director
 Officer (give title below) _____ Other (specify below)
VP Operations and Engineering

C/O MELLANOX TECHNOLOGIES, LTD., HERMON BLDG.

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

YOKNEAM, L3 20692

(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 Ownership (Instr. 4)
				(A) or (D)	Price		
Ordinary Shares	10/29/2007		S	D	\$ 22.86	573,950	D
Ordinary Shares	10/29/2007		S	D	\$ 22.87	573,900	D
Ordinary Shares	10/29/2007		S	D	\$ 22.89	573,600	D
Ordinary Shares	10/29/2007		S	D	\$ 22.9	573,400	D
	10/29/2007		S	D		573,200	D

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Ordinary Shares					\$ 22.91		
Ordinary Shares	10/29/2007	S	150	D	\$ 22.92	573,050	D
Ordinary Shares	10/29/2007	S	500	D	\$ 22.93	572,550	D
Ordinary Shares	10/29/2007	S	150	D	\$ 22.94	572,400	D
Ordinary Shares	10/29/2007	S	1,350	D	\$ 22.95	571,050	D
Ordinary Shares	10/29/2007	S	500	D	\$ 22.96	570,550	D
Ordinary Shares	10/29/2007	S	750	D	\$ 22.97	569,800	D
Ordinary Shares	10/29/2007	S	450	D	\$ 22.98	569,350	D
Ordinary Shares	10/29/2007	S	1,150	D	\$ 22.99	568,200	D
Ordinary Shares	10/29/2007	S	4,200	D	\$ 23	564,000	D
Ordinary Shares	10/29/2007	S	1,844	D	\$ 23.01	562,156	D
Ordinary Shares	10/29/2007	S	400	D	\$ 23.02	561,756	D
Ordinary Shares	10/29/2007	S	4,356	D	\$ 23.03	557,400	D
Ordinary Shares	10/29/2007	S	4,600	D	\$ 23.04	552,800	D
Ordinary Shares	10/29/2007	S	4,850	D	\$ 23.05	547,950	D
Ordinary Shares	10/29/2007	S	1,950	D	\$ 23.06	546,000	D
Ordinary Shares	10/29/2007	S	650	D	\$ 23.07	545,350	D
Ordinary Shares	10/29/2007	S	450	D	\$ 23.08	544,900	D
Ordinary Shares	10/29/2007	S	200	D	\$ 23.09	544,700	D
Ordinary Shares	10/29/2007	S	6,950	D	\$ 23.1	537,750	D
	10/29/2007	S	1,400	D		536,350	D

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Ordinary Shares						\$ 23.11		
Ordinary Shares	10/29/2007	S	1,600	D		\$ 23.12	534,750	D
Ordinary Shares	10/29/2007	S	297	D		\$ 23.13	534,453	D
Ordinary Shares	10/29/2007	S	100	D		\$ 23.14	534,353	D
Ordinary Shares	10/29/2007	S	100	D		\$ 23.15	534,253	D
Ordinary Shares	10/29/2007	S	3	D		\$ 23.2	534,250	D

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

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SEC 1474
(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	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 (Instr. 5)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

Reporting Owner Name / Address	Relationships
Cohen Shai C/O MELLANOX TECHNOLOGIES, LTD. HERMON BLDG. YOKNEAM, L3 20692	Director 10% Owner Officer Other VP Operations and Engineering

Signatures

/s/ Shai Cohen by Michael Gray, Power of
Attorney

10/31/2007

__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 is insufficient, *see* Instruction 6 for procedure.

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