



Form SC 13G

Mellanox Technologies, Ltd. - MLNX

February, 8 2008

Statement of acquisition of beneficial ownership by individuals

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

MELLANOX TECHNOLOGIES, LTD.

(Name of Issuer)

Ordinary Shares, Nominal Value NIS 0.0175 per share

(Title of Class of Securities)

M51363113

(CUSIP Number)

December 31, 2007

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

TABLE OF CONTENTS

Item 1(a) Name of Issuer:

Item 1(b) Address of Issuer's Principal Executive Offices:

Item 2(a) Name of Person Filing:

Item 2(b) Address of Principal Business Office:

Item 2(c) Citizenship:

Item 2(d) Title of Class of Securities:

Item 2(e) CUSIP Number:

Item 3 If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:

Item 4 Ownership:

Item 5 Ownership of Five Percent or Less of a Class:

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

Item 7 Identification and Classification of the Subsidiary which Acquired the Security Being

Item 8 Identification and Classification of Members of the Group:

Item 9 Notice of Dissolution of Group:

SIGNATURE

1	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Eyal Waldman	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Israel	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 3,151,961 (1)
	6	SHARED VOTING POWER -0-
	7	SOLE DISPOSITIVE POWER 3,151,961 (1)
	8	SHARED DISPOSITIVE POWER -0-
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,151,961 (1)	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 10.15%(1)	
12	TYPE OF REPORTING PERSON IN	

(1) As of December 31, 2007, Eyal Waldman beneficially owned 3,151,961 of the Issuer's Ordinary Shares, nominal value NIS 0.0175 per share, representing approximately 10.15% of the Issuer's outstanding Ordinary Shares issued and outstanding as of December 31, 2007. The 3,151,961 shares that Mr. Waldman beneficially owns includes: (i) 3,075,771 shares owned by Waldo 2 Holdings, a general partnership formed pursuant to the laws of Israel of which Mr. Waldman is a general partner, over which such shares Mr. Waldman has sole voting and dispositive power; and (ii) 76,190 shares issuable upon exercise of options held by Mr. Waldman that are currently exercisable or will become exercisable within 60 days after December 31, 2007.

[Table of Contents](#)

- Item 1(a). Name of Issuer:**
Mellanox Technologies, Ltd.
- Item 1(b). Address of Issuer's Principal Executive Offices:**
Hermon Building, Yokneam, Israel 20692
- Item 2(a). Name of Person Filing:**
Eyal Waldman
- Item 2(b). Address of Principal Business Office:**
Hermon Building, Yokneam, Israel 20692
- Item 2(c). Citizenship:**
Israel
- Item 2(d). Title of Class of Securities:**
Ordinary Shares, Nominal Value NIS 0.0175 per share
- Item 2(e). CUSIP Number:**
M51363113
- Item 3. If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:**
- (a) Broker or dealer registered under Section 15 of the Exchange Act.
 - (b) Bank as defined in Section 3(a)(6) of the Exchange Act.
 - (c) Insurance company as defined in Section 3(a)(19) of the Exchange Act.
 - (d) Investment company registered under Section 8 of the Investment Company Act.
 - (e) An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
 - (f) An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
 - (g) A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
 - (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
 - (i) A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
 - (j) Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
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[Table of Contents](#)

Item 4. Ownership:

As of December 31, 2007, Eyal Waldman beneficially owned:

- (a) Amount beneficially owned: **3,151,961 Ordinary Shares (1)**
- (b) Percent of class: **10.15% (1)**
- (c) Number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote: **3,151,961 (1)**
 - (ii) shared power to vote or to direct the vote: **-0-**
 - (iii) sole power to dispose or to direct the disposition of: **3,151,961 (1)**
 - (iv) shared power to dispose or to direct the disposition of: **-0-**

Item 5. Ownership of Five Percent or Less of a Class:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: **Not Applicable**

Item 6. Ownership of More than Five Percent on Behalf of Another Person:

Not Applicable

Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company or Control Person:

Not Applicable

Item 8. Identification and Classification of Members of the Group:

Not Applicable

Item 9. Notice of Dissolution of Group:

Not Applicable

[Table of Contents](#)

Item 10. Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 7, 2008

EYAL WALDMAN

By: /s/ Eyal Waldman
Reporting Person