STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

GRAY MICHAEL Form 4

September 09, 2010

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.

SECURITIES Form 4 or Form 5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * **GRAY MICHAEL**

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

Mellanox Technologies, Ltd.

(Check all applicable)

Chief Financial Officer

[MLNX]

09/07/2010

(Last) (First) (Middle)

(Street)

(State)

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

below)

10% Owner X_ Officer (give title Other (specify

350 OAKMEAD

PARKWAY, SUITE 100

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

Director

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

SUNNYVALE, CA 9408

(City)

(City)	(State)	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)	Code (Instr. 8)	omr Dispo (Instr. 3,	(A)	15)	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)		
Ordinary Shares	09/07/2010		Code V A	Amount 4,000	(D)	Price \$ 3.5	16,000 (1)	D			
Ordinary Shares							439 (2)	I	By Trust		
Ordinary Shares	09/07/2010		D	4,000 (3)	D	\$ 17.0653 (4)	12,000 (1)	D			

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)

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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. Transactic 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 3.5	09/07/2010		M	4,000	<u>(5)</u>	10/14/2014	Ordinary Shares	4,000

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

GRAY MICHAEL 350 OAKMEAD PARKWAY SUITE 100 SUNNYVALE, CA 94085

Chief Financial Officer

Signatures

/s/ Michael Gray

09/08/2010

**Signature of Date
Reporting Person

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).
- Includes 12,000 restricted stock units ("RSUs"), which were granted to the reporting person on January 20, 2010, and previously reported on Table II of the Reporting Person's Form 4s. The Reporting Person has elected to report his ownership of these RSUs in Table I of his Form 4 filings. The Reporting Person is entitled to recieve one (1) ordinary share for each one (1) RSU.
- (2) Shares held by the M&M Gray Family 2001 Trust U/T/A, for which Mr. Gray is a trustee.
- (3) The sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on October 26, 2009.

Reporting Owners 2

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- This transaction was executed in multiple trades in prices ranging from \$17.00 to \$17.15. The price reported above reflects the weighted average sale price. The Reporting Person hereby undertakes to provide upon request to the SEC staff, the Issuer, or a stockholder of the Issuer, information regarding the number of shares and prices at which the transaction was effected.
- (5) The shares subject to this option are fully vested and exerciseable.

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.