Kagan Michael Form 4 April 27, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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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

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * Kagan Michael

2. Issuer Name and Ticker or Trading Symbol

Issuer

Mellanox Technologies, Ltd.

[MLNX]

04/22/2009

(Check all applicable)

5. Relationship of Reporting Person(s) to

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

Director 10% Owner X_ Officer (give title Other (specify below)

CTO & VP of Architecture

C/O MELLANOX TECHNOLOGIES,

LTD., HERMON BLDG.

4. If Amendment, Date Original

(Instr. 8)

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year)

(Month/Day/Year)

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

YOKNEAM, L3 20692

(City) (State) (Zip)

(Street)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D)

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4) (Instr. 4)

(A)

Reported Transaction(s)

Code V Amount (D) Price

(Instr. 3, 4 and 5)

(Instr. 3 and 4)

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)

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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 orDerivative 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)	\$ 10.23	04/22/2009		A	24,793	<u>(1)</u>	04/22/2019	Ordinary Shares	24,793 (2)

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Kagan Michael C/O MELLANOX TECHNOLOGIES, LTD. HERMON BLDG. YOKNEAM, L3 20692

CTO & VP of Architecture

Signatures

/s/ Michael Kagan by Michael Gray, Power of Attorney

04/27/2009

**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).
- (1) One-third (1/3) of the Replacement Shares subject to this option vest on April 22, 2010. The remainder vests at a rate of 1/36th per month thereafter, such that 100% of the Replacement Shares subject to this option will be fully vested in three years.
 - The 24,793 shares (the "Replacement Shares") underlying this employee stock option (right to buy) were granted on April 22, 2009 in exchange for 30,000 shares granted to the reporting person on 12/31/2007 (the "Original Grant"). Reporting person tendered the Original
- Grant pursuant to the terms of Tender Offer Statement on Schedule TO filed by the Company with the Securities and Exchange Commission on March 24, 2009, as amended, relating to an offer by the Company to its employees and contractors to exchange certain outstanding options to purchase ordinary shares of the Company granted under the Mellanox Technologies, Ltd. Global Share Incentive Plan (2006). Upon grant of the Replacement Shares to the reporting person, the Original Grant was canceled in its entirety.

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.

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