

Kagan Michael  
 Form 4  
 October 28, 2009

**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 \*  
 Kagan Michael

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)  
 10/26/2009

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 CTO & VP of Architecture

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 Indirect Ownership (Instr. 4)
				(A) or (D)	Price		
Ordinary Shares	10/26/2009		S	1,600 D	\$ 18	239,943 <sup>(1)</sup>	D
Ordinary Shares	10/26/2009		S	200 D	\$ 18.05	239,743	D
Ordinary Shares	10/26/2009		S	1,400 D	\$ 18.06	238,343	D
Ordinary Shares	10/26/2009		S	2,900 D	\$ 18.07	235,443	D
	10/26/2009		S	1,200 D	\$ 18.08	234,243	D

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Ordinary Shares							
Ordinary Shares	10/26/2009	S	1,450	D	\$ 18.09	232,793	D
Ordinary Shares	10/26/2009	S	2,050	D	\$ 18.1	230,743	D
Ordinary Shares	10/26/2009	S	1,400	D	\$ 18.11	229,343	D
Ordinary Shares	10/26/2009	S	900	D	\$ 18.12	228,443	D
Ordinary Shares	10/26/2009	S	1,000	D	\$ 18.13	227,443	D
Ordinary Shares	10/26/2009	S	1,400	D	\$ 18.14	226,043	D
Ordinary Shares	10/26/2009	S	2,820	D	\$ 18.15	223,223	D
Ordinary Shares	10/26/2009	S	100	D	\$ 18.16	223,123	D
Ordinary Shares	10/26/2009	S	880	D	\$ 18.17	222,243	D
Ordinary Shares	10/26/2009	S	100	D	\$ 18.175	222,143	D
Ordinary Shares	10/26/2009	S	2,500	D	\$ 18.18	219,643	D
Ordinary Shares	10/26/2009	S	1,000	D	\$ 18.19	218,643	D
Ordinary Shares	10/26/2009	S	2,100	D	\$ 18.2	216,543	D
Ordinary Shares	10/26/2009	S	200	D	\$ 18.205	216,343	D
Ordinary Shares	10/26/2009	S	1,700	D	\$ 18.21	214,643	D
Ordinary Shares	10/26/2009	S	800	D	\$ 18.22	213,843	D
Ordinary Shares	10/26/2009	S	1,800	D	\$ 18.24	212,043	D
Ordinary Shares	10/26/2009	S	126	D	\$ 18.26	211,917	D
Ordinary Shares	10/26/2009	S	300	D	\$ 18.27	211,617	D
	10/26/2009	S	1,700	D	\$ 18.29	209,917	D

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Ordinary Shares								
Ordinary Shares	10/26/2009		S	174	D	\$ 18.3	209,743	D
Ordinary Shares	10/26/2009		S	1,000	D	\$ 18.31	208,743	D
Ordinary Shares	10/26/2009		S	100	D	\$ 18.32	208,643	D
Ordinary Shares	10/26/2009		S	200	D	\$ 18.34	208,443	D
Ordinary Shares	10/26/2009		S	227	D	\$ 18.37	208,216	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
Kagan Michael C/O MELLANOX TECHNOLOGIES, LTD. HERMON BLDG. YOKNEAM, L3 20692	Director 10% Owner Officer Other CTO & VP of Architecture

## Signatures

Michael Kagan by Michael Gray, Power of  
Attorney

10/28/2009

\_\_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) Includes 1,143 shares that were acquired by the reporting person on August 29, 2008 pursuant to the Company's employee stock purchase plan.

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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