

NETWORK-1 SECURITY SOLUTIONS, INC.

Filed Pursuant to Rule 424(b)(3)  
Registration No. 333-143710

PROSPECTUS SUPPLEMENT NO. 4  
(To Prospectus dated July 6, 2007)

This is a prospectus supplement to our prospectus dated July 6, 2007 (the "Prospectus") relating to the resale from time to time by selling stockholders of up to 5,360,000 shares of our common stock, including shares issuable upon exercise of outstanding warrants. On January 3, 2008, we filed with the Securities and Exchange Commission a Current Report on Form 8-K. The text of the Current Report on Form 8-K is attached to and a part of this supplement.

This prospectus supplement should be read in conjunction with the Prospectus and may not be delivered or utilized without the Prospectus. This prospectus supplement is qualified by reference to the Prospectus, except to the extent that the information provided by this prospectus supplement supersedes the information contained in the Prospectus.

The securities offered by the Prospectus involve a high degree of risk. You should carefully consider the "Risk Factors" referenced on page 4 of the Prospectus in determining whether to purchase the Common Stock.

The date of this prospectus supplement is January 3, 2008.

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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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Form 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the

Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): December 31, 2007

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Network-1 Security Solutions, Inc.

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(Exact name of registrant as specified in its charter)

Delaware

1-14896

11-3027591

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(State or other jurisdiction  
of incorporation)

(Commission  
File Number)

(IRS Employer  
Identification No.)

445 Park Avenue, Suite 1028, New York, New York 10022

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(Address of principal executive offices)

Registrant's telephone number, including area code: (212) 829-5700

N/A

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(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (SEE General Instruction A.2. below):

- ☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- ☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- ☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- ☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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ITEM 5.02 DEPARTURE OF DIRECTORS OR CERTAIN OFFICERS; ELECTION OF DIRECTORS, APPOINTMENT OF CERTAIN OFFICERS; ARRANGEMENTS OF CERTAIN OFFICERS

Effective December 31, 2007, Harry Schessel resigned as a director of Network-1 Security Solutions, Inc. (the "Company").

There were no disagreements between Mr. Schessel and the Company on any matter relating to the Company's operations, policies or practices, which resulted in his resignation.

ITEM 9.01 FINANCIAL STATEMENTS AND EXHIBITS

(d) Exhibits

Exhibit 10.17 -- Resignation Letter of Harry Schessel dated December 20, 2007.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Company has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

NETWORK-1 SECURITY SOLUTIONS, INC.

Dated: January 3, 2008

By: /s/ David Kahn

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Name: David Kahn  
Title: Chief Financial Officer

December 20, 2007

Corey M. Horowitz, Chairman & CEO  
Network-1 Security Solutions, Inc.  
445 Park Avenue, Suite 1028  
New York, New York 10022

Dear Corey:

This letter will confirm that I hereby resign as a member of the Board of Directors of Network-1 effective December 31, 2007.

Very truly yours,

/s/ Harry Schessel