UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K/A

CURRENT REPORT

Pursuant to Section 13 OR 15(d) of

The Securities Exchange Act of 1934

Date of Report: October 14, 2004

(Date of earliest event reported)

RIVERSTONE NETWORKS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or Other Jurisdiction 0-32269 (Commission 95-4596178 (IRS Employer

of Incorporation)

File Number)

Identification No.)

5200 Great America Parkway, Santa Clara, California (Address of principal executive offices)

95054 (Zip Code)

Registrant s telephone number, including area code

(408) 878-6500

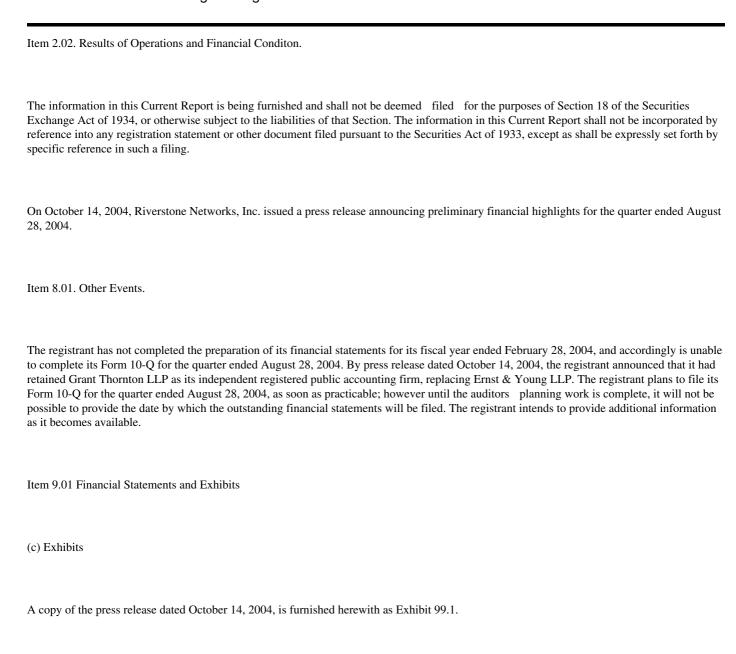
(Former name or former address, if changed since last report)

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:

- " 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))

Explanatory Note

The purpose of this filing is to amend the Form 8-K filed by Riverstone Networks, Inc. (Riverstone or the registrant) on October 14, 2004 under Items 7.01 and 9.01 (i) to correct an inadvertent filing error whereby the information relating to Riverstone s preliminary financial highlights for the quarter ended August 28, 2004 was furnished under Item 7.01 rather than under Item 2.02, and (ii) to add a new Section 8.01 disclosure.



SIGNATURE

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

Dated: October 15, 2004

RIVERSTONE NETWORKS, INC.

By: /s/ Roger A. Barnes

Name: Roger A. Barnes

Title: Executive Vice President,

Chief Financial Officer

EXHIBIT INDEX

Exhibit

Number Description

99.1 Press release dated October 14, 2004.