| POSITRON CORP |
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| Form 10-Q/A |
| May 16, 2014 |

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SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q/A

(Amendment No. 1)

[x] QUARTERLY REPORT PURSUANT TO SECTION 13 or 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the period ended: March 31, 2014

Commission file number: 000-29449

POSITRON CORPORATION

(Exact name of registrant as specified in its charter)

Texas 76-0083622

(State or Other Jurisdiction of Incorporation or (IRS Employer Identification No.) Organization)

530 Oakmont Lane, Westmont, Illinois 60559

(Address of Principal Executive Offices) (Zip Code)

Registrant's Telephone Number, Including Area Code: (317) 576-0183

| Indicate by check mark whether the issuer (1) filed all reports required to be filed by Section 13 or 15(d) of the |
|--|
| Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was |
| required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. |

Yes [x] No []

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes [x] No []

Indicate by check mark whether the registrant is a larger accelerated filer, an accelerated filer, a non-accelerated or a smaller reporting company filer. See the definition of "large accelerated filer, accelerated filer and smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer " Accelerated filer

Non-accelerated filer "Smaller reporting company x

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes [] No [x]

As of May 15, 2014, the number of shares outstanding of the registrant's common stock, par value \$0.0001 per share, was 3,720,072,702

EXPLANATORY NOTE

The purpose of this Amendment No. 1 (the "Amendment") to Positron Corporation's quarterly report on Form 10-Q for the period ended March 31, 2014, originally filed with the U.S. Securities and Exchange Commission on May 15, 2014 (the "Form 10-Q"), is solely to furnish Exhibit 101 to the Form 10-Q in accordance with Rule 405 of Regulation S-T.

No other changes have been made in this Amendment to the Form 10-Q. This Amendment speaks as of the original date of the Form 10-Q, does not reflect events that may have occurred subsequent to the original filing date and does not modify or update in any way disclosures made in the original Form 10-Q.

Pursuant to rule 406T of Regulation S–T, the interactive data files on Exhibit 101 attached hereto are deemed not filed or part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933, as amended, are deemed not filed for purposes of Section 18 of the Securities Act of 1934, as amended, and otherwise are not subject to liability under those sections.

Item 6. Exhibits.

Exhibit No. Description

| 101.INS | XBRL Instance Document * |
|---------|---|
| 101.SCH | XBRL Taxonomy Extension Schema * |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase * |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase * |
| 101.LAB | XBRL Taxonomy Extension Label Linkbase * |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase * |

^{*} Information is furnished and not filed or a part of a registration statement or prospectus for purposes of sections 11 or 12 of the Securities Act of 1933, as amended, is deemed not filed for purposes of section 18 of the Securities Exchange Act of 1934, as amended, and otherwise is not subject to liability under these sections

SIGNATURES

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

POSITRON CORPORATION

Date:

May 16,

By: /s/ Patrick Rooney

2014

Name: Patrick Rooney Title: Chief Executive Officer, Chairman of

the Board

(Principal Executive Officer)

Date:

May

16,

By: /s/ Corey Conn

2014

Name: Corey Conn Title: Chief Financial Officer

(Principal Accounting Officer)