

incorporation or organization) Identification Number)

5740 Fleet Street, Carlsbad, California 92008
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (760) 537-4100

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Name of each exchange on which registered</u>
Common Stock, \$0.01 par value	The NASDAQ Capital Market

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.
Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has 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 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 No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See definitions 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 (Do not check if a smaller reporting company) Smaller reporting company filer

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes
No

The aggregate market value of the voting stock held by non-affiliates of the registrant, based upon the closing sale price of the Common Stock on June 30, 2015 as reported on The NASDAQ Capital Market, was \$11.6 million. Shares of Common Stock held by each executive officer and director and by each person who owns 10% or more of the outstanding Common Stock have been excluded in that such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of March 15, 2016, there were 10,709,080 shares of the registrant's Common Stock outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

None.

EXPLANATORY NOTE

Signal Genetics, Inc. (the “Company”) is filing this Amendment No. 1 on Form 10-K/A (this “Amendment No.1”) to its Annual Report on Form 10-K for the fiscal year ended December 31, 2015, originally filed with the Securities and Exchange Commission (the “SEC”) on March 21, 2016 (the “Original Form 10-K”), to add the internal control over financial reporting language in the introductory portion of paragraph 4 and 4(b) of the certifications of its principal executive officer and principal financial officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (the “Section 302 Certifications”). This language was inadvertently omitted from the Section 302 Certifications attached to the Original Form 10-K. Because no financial statements are contained within this Amendment No.1, paragraph 3 of the Section 302 Certifications has been omitted. The corrected Section 302 Certifications are attached to this Amendment No. 1 as Exhibits 31.1 and 31.2.

Except as described above, no other changes have been made to the Original Form 10-K. Except as otherwise indicated herein, this Amendment No.1 continues to speak as of the date of the Original Form 10-K, and the Company has not updated the disclosures contained therein to reflect any events that occurred subsequent to the date of the Original Form 10-K. Accordingly, this Amendment No. 1 should be read in conjunction with the Original Form 10-K and the Company’s filings made with the SEC subsequent to the filing of the Original Form 10-K. The filing of this Amendment No. 1 is not an admission that the Original Form 10-K, when filed, included any untrue statement of a material fact or omitted to state a material fact necessary to make a statement not misleading.

PART IV

Item 15. Exhibits and Financial Statement Schedules

Exhibit Number	Description of Exhibit
31.1*	Certification of Principal Executive Officer pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities and Exchange Act, as amended.
31.2*	Certification of Principal Financial Officer pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities and Exchange Act, as amended.

*Filed herewith.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: August 18, 2016 **SIGNAL GENETICS, INC.**

By: /s/ Samuel D. Riccitelli
Samuel D. Riccitelli, President
and Chief Executive Officer

EXHIBIT INDEX

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