

SIGNAL GENETICS, INC.

Form SC 13G/A

January 19, 2016

**SECURITIES  
AND  
EXCHANGE  
COMMISSION  
Washington,  
D.C. 20549**

**SCHEDULE  
13G**

Under the  
Securities  
Exchange Act of  
1934

(Amendment No.  
1)\*

Signal Genetics,  
Inc.  
(Name of Issuer)

Common Stock,  
\$0.01 par value  
(Title of Class of  
Securities)

826640104  
(CUSIP Number)

Decmeber 31,  
2015  
(Date of event  
which requires  
filing of this  
statement)

Check the  
appropriate box  
to designate the  
rule pursuant to  
which this  
Schedule 13G is  
filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

(Page 1 of 6  
Pages)

---

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

<b>1</b>	NAMES OF REPORTING PERSONS
	Empery Asset Management, LP
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER (b) " OF A GROUP
<b>3</b>	SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION
<b>4</b>	Delaware
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	SOLE VOTING POWER
<b>5</b>	
	SHARED VOTING POWER
<b>6</b>	0 shares of Common Stock
<b>7</b>	SOLE DISPOSITIVE POWER
<b>8</b>	SHARED DISPOSITIVE POWER

0 shares of  
Common Stock

AGGREGATE  
AMOUNT  
BENEFICIALLY  
OWNED BY EACH  
REPORTING  
PERSON

9

0 shares of Common  
Stock

CHECK BOX  
IF THE  
AGGREGATE  
AMOUNT IN ..  
ROW (9)  
EXCLUDES  
CERTAIN  
SHARES  
PERCENT OF  
CLASS  
REPRESENTED BY  
AMOUNT IN ROW  
(9)

10

11

0%  
TYPE OF  
REPORTING  
PERSON

12

PN

**1** NAMES OF REPORTING PERSONS

Ryan M. Lane

**2** CHECK THE APPROPRIATE BOX IF A MEMBER (b) OF A GROUP

**3** SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION

**4**

United States

**5** SOLE VOTING POWER

SHARED VOTING POWER

**6**

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

0 shares of Common Stock

**7** SOLE DISPOSITIVE POWER

SHARED DISPOSITIVE POWER

**8**

0 shares of Common Stock

AGGREGATE  
AMOUNT  
BENEFICIALLY  
OWNED BY EACH  
REPORTING  
PERSON

9

0 shares of Common  
Stock

CHECK BOX  
IF THE  
AGGREGATE  
AMOUNT IN ..  
ROW (9)  
EXCLUDES  
CERTAIN  
SHARES  
PERCENT OF  
CLASS

10

REPRESENTED BY  
AMOUNT IN ROW  
(9)

11

0%  
TYPE OF  
REPORTING  
PERSON

12

IN

**1** NAMES OF REPORTING PERSONS

**2** Martin D. Hoe

**3** CHECK THE APPROPRIATE BOX IF A MEMBER (b) OF A GROUP

**4** SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION

United States

**5** SOLE VOTING POWER

SHARED VOTING POWER

**6**

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

0 shares of Common Stock

**7**

SOLE DISPOSITIVE POWER

SHARED DISPOSITIVE POWER

**8**

0 shares of Common Stock

AGGREGATE  
AMOUNT  
BENEFICIALLY  
OWNED BY EACH  
REPORTING  
PERSON

9

0 shares of Common  
Stock

CHECK BOX  
IF THE  
AGGREGATE  
AMOUNT IN ..  
ROW (9)  
EXCLUDES  
CERTAIN  
SHARES  
PERCENT OF  
CLASS

10

REPRESENTED BY  
AMOUNT IN ROW  
(9)

11

0%  
TYPE OF  
REPORTING  
PERSON

12

IN



This Amendment No. 1 (this "Amendment") amends the statement on Schedule 13G filed on February 20, 2015 (the "Original Schedule 13G" and the Original Schedule 13G as amended, the "Schedule 13G"), with respect to shares of Common Stock, \$0.01 par value (the "Common Shares"), of Signal Genetics, Inc. (the "Company"). Capitalized terms used herein and not otherwise defined in this Amendment have the meanings set forth in the Schedule 13G. This Amendment amends and restates Items 4 and 5 in their entirety as set forth below.

**Item 4. OWNERSHIP.**

The information as of the date of the event which requires filing of this statement required by Items 4(a) – (c) is set forth in Rows 5 – 11 of the cover page for each Reporting Person hereto and is incorporated herein by reference for each such Reporting Person. The percentage set forth in Row 11 of the cover page for each Reporting Person is based on 10,635,454 shares of Common Stock issued and outstanding as of November 6, 2015 as represented in the Company's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 13, 2015.

The Investment Manager, which serves as the investment manager to the Empery Funds, may be deemed to be the beneficial owner of all shares of Common Stock held by the Empery Funds. Each of the Reporting Individuals, as Managing Members of the General Partner of the Investment Manager with the power to exercise investment discretion, may be deemed to be the beneficial owner of all shares of Common Stock held by the Empery Funds. The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of shares of Common Stock owned by another Reporting Person. Each of the Reporting Individuals hereby disclaims any beneficial ownership of any such shares of Common Stock.

**Item 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS.**

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: [X]

CUSIP No. 826640104 13GPage 6 of 6 Pages

SIGNATURES

After reasonable inquiry and to the best of our knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

DATED: January 19, 2016

EMPERY ASSET MANAGEMENT, LP

By: EMPERY AM GP, LLC, its General Partner

By: /s/ Ryan M. Lane

Name: Ryan M. Lane

Title: Managing Member

/s/ Ryan M. Lane

Ryan M. Lane

/s/ Martin D. Hoe

Martin D. Hoe