

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
July 7, 2016**

**ORDER GRANTING CONFIDENTIAL TREATMENT  
UNDER THE SECURITIES ACT OF 1933 AND  
THE SECURITIES EXCHANGE ACT OF 1934**

**bluebird bio, Inc.  
File Nos. 333-188605 and 1-35966**

**CF#33908**

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bluebird bio, Inc. submitted an application under Rules 406 and 24b-2 requesting an extension of previous grants of confidential treatment for information it excluded from the Exhibits to a Form S-1 filed on May 14, 2013, as amended, a Form 10-Q filed on November 14, 2013 and a Form 10-Q filed on May 6, 2015.

Based on representations by bluebird bio, Inc. that this information qualifies as confidential commercial or financial information under the Freedom of Information Act, 5 U.S.C. 552(b)(4), the Division of Corporation Finance has determined not to publicly disclose it. Accordingly, excluded information from the following exhibits will not be released to the public for the time periods specified:

| <b>Exhibit</b> |  | <b>Form</b> |  | <b>Filed on</b>   |  | <b>Confidential Treatment Granted</b> |
|----------------|--|-------------|--|-------------------|--|---------------------------------------|
| 10.6           |  | S-1         |  | May 14, 2013      |  | through May 21, 2019                  |
| 10.7           |  | S-1         |  | May 14, 2013      |  | through May 21, 2019                  |
| 10.8           |  | S-1         |  | May 14, 2013      |  | through May 21, 2019                  |
| 10.10          |  | S-1         |  | May 14, 2013      |  | through May 21, 2019                  |
| 10.11          |  | S-1         |  | May 14, 2013      |  | through June 2, 2018                  |
| 10.2           |  | 10-Q        |  | November 14, 2013 |  | through May 21, 2019                  |
| 10.10          |  | 10-Q        |  | May 6, 2015       |  | through May 21, 2019                  |

For the Commission, by the Division of Corporation Finance, pursuant to delegated authority:

Brent J. Fields  
Secretary