

April 25, 2019

VIA EDGAR

U.S. Securities and Exchange Commission Division of Corporation Finance, Office of Healthcare & Insurance 100 F. Street, NE Washington, DC 20549

RE: Flex Pharma, Inc.

Registration Statement on Form S-4 (File No. 333-229666)

Filed February 14, 2019

Ladies and Gentlemen:

Pursuant to Rules 460 and 461 of the General Rules and Regulations under the Securities Act of 1933, as amended, Flex Pharma, Inc. (the $\hat{a} \in \mathbb{R}$ Registrant $\hat{a} \in \mathbb{R}$) hereby requests that the effectiveness of the above-captioned Registration Statement (the $\hat{a} \in \mathbb{R}$ Registration Statement $\hat{a} \in \mathbb{R}$) be accelerated so that it will become effective as of 10:00 a.m. EDT on April 29, 2019, or as soon thereafter as practicable.

The Registrant acknowledges that:

- †should the U.S. Securities and Exchange Commission (the "Commissionâ€∏) or the staff of the Commission (the "Staffâ€∏), acting
- pursuant to delegated authority, declare the Registration Statement effective, it does not foreclose the Commission from taking any action with respect to the Registration Statement;
- †the action of the Commission or the Staff, acting pursuant to delegated authority, in declaring the Registration Statement effective, does not
- c relieve the Registrant from its full responsibility for the adequacy and accuracy of the disclosure in the Registration Statement; and
- †the Registrant may not assert Staff comments and the declaration of effectiveness of the Registration Statement as a defense in any
- ¢ proceeding initiated by the Commission or any person under the federal securities laws of the United States.

Please call Walter Van Dorn of Dentons US LLP at 212-768-6985 or Thomas Redekopp of Dentons Canada LLP at 416-863-4511 to confirm the effectiveness of the Registration Statement or with any questions.

FLEX PHARMA
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Very truly yours,

FLEX PHARMA, INC.

/s/ William McVicar

William McVicar President and Chief Financial Officer

cc: Jeffrey Gabor Division of Corporation Finance, Office of Healthcare & Insurance