

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

**SCHEDULE 14A INFORMATION**  
Proxy Statement Pursuant to Section 14(a) of the  
Securities Exchange Act of 1934

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))**
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material Pursuant to §240.14a-12

**MAGENTA THERAPEUTICS, INC.**

(Exact name of registrant as specified in its charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

Fee paid previously with preliminary materials.

Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:

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**Important Notice Regarding the Availability of Proxy Materials for the Magenta Therapeutics, Inc. 2020 Annual Meeting of Stockholders to be Held on June 5, 2020**

This communication presents only an overview of the more complete proxy materials that are available to you on the Internet. We encourage you to access and review all of the important information contained in the proxy materials before voting. To view the proxy statement and annual report, go to [www.proxydocs.com/MGTA](http://www.proxydocs.com/MGTA). To submit your proxy while visiting this site, you will need the 12 digit control number in the box below.

Under United States Securities and Exchange Commission rules, proxy materials do not have to be delivered in paper. Proxy materials can be distributed by making them available on the Internet. We have chosen to use these procedures for our Annual Meeting and need YOUR participation.

*If you want to receive a paper or e-mail copy of the proxy materials, you must request one. There is no charge to you for requesting a copy. In order to receive a paper package in time for this year's annual meeting, please make this request on or before May 26, 2020.*

**For a Convenient Way to VIEW Proxy Materials  
– and –  
VOTE Online go to: [www.proxydocs.com/MGTA](http://www.proxydocs.com/MGTA)**

Proxy Materials Available to View or Receive:

- 1. Annual Report
- 2. Proxy Statement

Printed materials may be requested by one of the following methods:

  
**INTERNET**  
[www.investorelections.com/MGTA](http://www.investorelections.com/MGTA)

  
**TELEPHONE**  
(866) 648-8133

  
**\*E-MAIL**  
[paper@investorelections.com](mailto:paper@investorelections.com)

**You must use the 12 digit control number located in the shaded gray box below.**

\* If requesting material by e-mail, please send a blank e-mail with the 12 digit control number (located below) in the subject line. No other requests, instructions or other inquiries should be included with your e-mail requesting material.

**Notice of Magenta Therapeutics, Inc. 2020 Annual Meeting of Stockholders**



Date: Friday, June 5, 2020  
Time: 9:00 a.m. Eastern Time  
Place: Annual Meeting to be held live via the Internet—please visit [www.proxydocs.com/MGTA](http://www.proxydocs.com/MGTA) for virtual meeting registration details.

**To be admitted to the Annual Meeting and vote your shares, you must register in advance at [www.proxydocs.com/MGTA](http://www.proxydocs.com/MGTA) prior to the deadline of Wednesday, June 3, 2020 at 5:00 p.m. Eastern Time. The control number located in the shaded gray box will be required to register.**

**The Board of Directors recommends a vote FOR all the nominees listed in Proposal 1 and FOR Proposal 2.**

- 1. To elect four class II directors to our Board of Directors, to serve until the 2023 annual meeting of stockholders and until his or her successor has been duly elected and qualified, or until his or her earlier death, resignation or removal.
  - 1. Jeffrey Albers
  - 2. Michael W. Bonney
  - 3. Anne McGeorge
  - 4. David T. Scadden, M.D.
- 2. To ratify the appointment of KPMG LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2020.