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

**SCHEDULE 13D**

**Under the Securities Exchange Act of 1934  
(Amendment No. 1)\***

**CRISPR Therapeutics AG**  
(Name of Issuer)

**Common Shares, CHF 0.03 nominal value per share**  
(Title of Class of Securities)

**H17182 108**  
(CUSIP Number)

**Matthew R. Gemello, Esq.  
William L. Hughes, Esq.  
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405 Howard Street  
San Francisco, CA 94105  
(415) 773-5700**

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

**December 31, 2019**

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f), or 240.13d-1(g), check the following box.

**Note:** Schedules filed in paper format shall include a signed original and five copies of this Schedule, including all exhibits. See Rule 240.13d-7 for other parties to whom copies are to be sent.

\* 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 disclosures provided in a prior cover page.

The information required on 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).

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<b>1</b>	<b>NAMES OF REPORTING PERSONS</b> S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) Bayer Global Investments B.V.	
<b>2</b>	<b>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP</b> (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
<b>3</b>	<b>SEC USE ONLY</b>	
<b>4</b>	<b>SOURCE OF FUNDS (SEE INSTRUCTIONS)</b> N/A	
<b>5</b>	<b>CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)</b> <input type="checkbox"/>	
<b>6</b>	<b>CITIZENSHIP OR PLACE OF ORGANIZATION</b> The Netherlands	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>7</b>	<b>SOLE VOTING POWER</b> 0
	<b>8</b>	<b>SHARED VOTING POWER</b> 4,319,717
	<b>9</b>	<b>SOLE DISPOSITIVE POWER</b> 0
	<b>10</b>	<b>SHARED DISPOSITIVE POWER</b> 4,319,717
<b>11</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 4,319,717	
<b>12</b>	<b>CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>13</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)</b> 7.2%	
<b>14</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> CO	

<b>1</b>	<b>NAMES OF REPORTING PERSONS</b> S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Bayer AG	
<b>2</b>	<b>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP</b> (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
<b>3</b>	<b>SEC USE ONLY</b>	
<b>4</b>	<b>SOURCE OF FUNDS (SEE INSTRUCTIONS)</b> N/A	
<b>5</b>	<b>CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)</b> 2(e) <input type="checkbox"/>	
<b>6</b>	<b>CITIZENSHIP OR PLACE OF ORGANIZATION</b> Germany	
<b>NUMBER OF SHARES                  BENEFICIALLY                  OWNED BY EACH                  REPORTING PERSON                  WITH</b>	<b>7</b>	<b>SOLE VOTING POWER</b> 0
	<b>8</b>	<b>SHARED VOTING POWER</b> 4,319,717
	<b>9</b>	<b>SOLE DISPOSITIVE POWER</b> 0
	<b>10</b>	<b>SHARED DISPOSITIVE POWER</b> 4,319,717
<b>11</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 4,319,717	
<b>12</b>	<b>CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>13</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)</b> 7.2%	
<b>14</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> CO	

## SCHEDULE 13D/A

### Introduction

This Amendment No. 1 (this “Amendment No. 1”) to Schedule 13D amends the statement on Schedule 13D (the “Schedule 13D”), originally filed with the Securities and Exchange Commission (the “Commission”) on October 28, 2016 (the “Original Filing Date”) by Bayer Global Investments B.V. (the “Company”) and Bayer AG, the 100% owner, through subsidiaries, of the Company (the “Owner” and together with the Company, the “Reporting Persons”). This Amendment No. 1 relates to the sale by the Reporting Persons of 1,389,030 shares of common stock, having a nominal value of CHF 0.03 per share (the “Common Stock”), of CRISPR Therapeutics AG (the “Issuer”) which resulted in a decrease in the Reporting Persons’ beneficial ownership to 7.2% as of January 8, 2020. Capitalized terms not otherwise defined in this Amendment No. 1 shall have the same meaning assigned to them in the Schedule 13D.

### Item 2. Identity and Background.

Item 2 of the Schedule 13D is hereby amended by adding the following to the end thereof.

In connection with the filing of Amendment No. 1 to the Schedule 13D, Exhibits A and B have been updated and are filed herewith.

### Item 4. Purpose of Transaction.

Item 4 of the Schedule 13D is hereby amended by adding the following to the end thereof:

From December 18, 2019 to January 8, 2020, the Reporting Persons sold an aggregate of 1,389,030 shares of Common Stock of the Issuer in a series of open market transactions at various prices. Information regarding the sales is set forth in Item 5(c). The Reporting Persons may engage in additional sales of the Issuer’s Common Stock as described in the second paragraph of this Item 4.

### Item 5. Interest in Securities of the Issuer.

Paragraphs (a) and (b) of Item 5 of the Schedule 13D are hereby amended and restated in their entirety as follows:

(a) To the knowledge of the Reporting Persons, no director or executive officer of either Reporting Person beneficially owns any shares of Common Stock of the Issuer.

As of the Original Filing Date, the Company beneficially owned 5,105,330 shares of Common Stock of the Issuer. As the Company is indirectly wholly-owned by the Owner, the Owner also beneficially owned the same 5,105,330 shares of Common Stock as of the Original Filing Date, which then represented 12.8% of the outstanding shares of the Issuer as calculated under Rule 13d-3 of the Securities Exchange Act of 1934, as amended.

From December 18, 2019 to January 8, 2020, the Reporting Persons sold an aggregate of 1,389,030 shares of Common Stock of the Issuer in a series of open market transactions. As of December 18, 2019, prior to any sales on such date, the Reporting Persons beneficially owned less than 10% of the Issuer’s outstanding Common Stock as a result of the Issuer’s issuance of additional Common Stock since the Original Filing Date. As of January 8, 2020, the Reporting Persons beneficially owned an aggregate of 4,319,717 shares of the Issuer’s Common Stock, or approximately 7.2% of the Issuer’s Common Stock outstanding.

(b) As the Company is indirectly wholly-owned by the Owner, the Company and the Owner share voting and investment power over the Issuer’s Common Stock reported in the Schedule 13D and amendments thereto.

As of the Original Filing Date, the Reporting Persons shared voting and investment power over 5,105,330 shares of Common Stock of the Issuer.

As of January 8, 2020, the Reporting Persons shared voting and investment power over 4,319,717 shares of Common Stock of the Issuer.

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Item 5(c) of the Schedule 13D is hereby amended and restated in its entirety as follows:

(c) Other than the transactions described below, neither the Reporting Persons nor, to the knowledge of the Reporting Persons, any director or executive officer of either Reporting Person has effected any transaction in the Common Stock of the Issuer during the past 60 days.

From December 18, 2019 to January 8, 2020, the Reporting Persons sold an aggregate of 1,389,030 shares of Common Stock of the Issuer in a series of open market transactions at various prices as follows:

<u>Trade Date</u>	<u>Shares Sold</u>	<u>Weighted Average Price Per Share (\$)</u>
2019-12-18	40,000*	65.75
2019-12-19	35,945*	64.39
2019-12-23	102,579	68.02
2019-12-24	47,517	67.20
2019-12-26	147,400	66.33
2019-12-27	102,564	66.29
2019-12-30	113,755	62.25
2019-12-31	115,800	61.82
2020-01-02	179,310	59.27
2020-01-03	132,600	59.27
2020-01-06	91,987	59.67
2020-01-07	95,027	60.28
2020-01-08	184,546	62.27

\* Consists of shares sold by a wholly owned indirect subsidiary of Owner that were originally received as a pro rata distribution from a limited partnership subsequent to the Original Filing Date.

**Item 7. Material to be Filed as Exhibits.**

Item 7 is hereby amended and supplemented by replacing Exhibits A and B to the Schedule 13D and adding Exhibit H.

<u>Exhibit</u>	<u>Title</u>
Exhibit A	Information concerning the Company's executive officers and directors.
Exhibit B	Information concerning the Owner's executive officers and directors.
Exhibit H	Joint Filing Agreement, dated January 10, 2020 among the Reporting Persons.

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

**Signatures**

<u>/s/ Patrick Lennaerts on behalf of Bayer Global Investments B.V.</u> ** Signature of Reporting Person	<u>01/10/2020</u> Date
<u>/s/ Martina Völkel, M. Völkel, CFI - Head of LATAM on behalf of Bayer AG</u> ** Signature of Reporting Person	<u>01/10/2020</u> Date
<u>/s/ Martin Eisenhauer, M. Eisenhauer, Senior Counsel on behalf of Bayer AG</u> ** Signature of Reporting Person	<u>01/10/2020</u> Date

**Exhibit A**

<u>Name and Business Address</u>	<u>Country of Citizenship</u>	<u>Present Principal Occupation or Employment</u>
Patrick Lennaerts Bayer Global Investments B.V. Energieweg 1 3641 RT Mijdrecht Netherlands	the Netherlands	Managing Director of Bayer Global Investments B.V., Bayer World Investments B.V., Bayer B.V., Bayer Capital Corporation B.V., Bayer Solution B.V., Biogenetic Technologies B.V., Bayer Netherlands B.V., Bayer New TK M3970 Min I B.V., Bayer New ZA M3743 Min I B.V., Bayer Seeds B.V., and Berlipharm B.V.  Member of the Board of Bayer Medical Care B.V., and Bayer SA-NV
Peter van Oostrum Bayer Global Investments B.V. Energieweg 1 3641 RT Mijdrecht Netherlands	the Netherlands	Director of Bayer Global Investments B.V., Bayer World Investments B.V., Bayer Netherlands B.V. and Bayer Capital Corporation B.V.

**Exhibit B**

<u>Name and Business Address</u>	<u>Country of Citizenship</u>	<u>Present Principal Occupation or Employment</u>
Werner Baumann Bayer AG Kaiser-Wilhelm-Allee 51368 Leverkusen Germany	Germany	CEO Bayer AG
Liam Condon Bayer AG Alfred-Nobel Str. 50 40789 Monheim am Rhein Germany	Ireland	Member of the Board of Management Bayer AG President Crop Science Division Responsible for Animal Health Business Unit
Wolfgang Nickl Bayer AG Kaiser-Wilhelm-Allee 51368 Leverkusen Germany	Germany	Member of the Board of Management Bayer AG Responsible for Finance (CFO) and for the region North America
Stefan Oelrich Bayer AG Kaiser-Wilhelm-Allee 51368 Leverkusen Germany	Germany	Member of the Board of Management Bayer AG Head of the Pharmaceuticals Division and responsible for region Latin America
Heiko Schipper Bayer AG Kaiser-Wilhelm-Allee 51368 Leverkusen Germany	the Netherlands	Member of the Board of Management Bayer AG President Consumer Health Division
Bernd-Peter Bier Bayer AG Kaiser-Wilhelm-Allee 51368 Leverkusen Germany	Germany	Head of Group Finance Bayer AG
Gabriel Harnier Bayer AG Kaiser-Wilhelm-Allee 51368 Leverkusen Germany	Germany	General Counsel Bayer AG



EXHIBIT H

JOINT FILING AGREEMENT

Each of the undersigned hereby agrees that Amendment No. 1 to the Schedule 13D, to which this Agreement is attached as Exhibit H, and all further amendments to Schedule 13D relating to the Common Stock of CRISPR Therapeutics AG may be filed on behalf of each such person.

Dated: January 10, 2020

BAYER GLOBAL INVESTMENTS B.V.

By: /s/ Patrick Lennaerts

Name: Patrick Lennaerts

Title: Managing Director

BAYER AG

By: /s/ Martina Völkel

Name: Martina Völkel

Title: CFI, Head of LATAM

By: /s/ Martin Eisenhauer

Name: Martin Eisenhauer

Title: Senior Counsel

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