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

**SCHEDULE 13G/A**  
Under the Securities Exchange Act of 1934

**Ayala Pharmaceuticals, Inc**

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(Name of Issuer)

**Common Stock, Par Value \$0.001 per Share**

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(Title of Class of Securities)

**007624307**

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(CUSIP Number)

**October 18, 2023**

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(Date of Event which Requires Filing of this Statement)

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

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

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.

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|   |  |                                     |
|---|--|-------------------------------------|
| CUSIP No.   | 007624307  |                                     |
| 1.  | Names of Reporting Persons<br>aMoon Growth Fund Limited Partnership  |                                     |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input checked="" type="checkbox"/><br>(b) <input type="checkbox"/> |                                     |
| 3.  | SEC Use Only   |                                     |
| 4.  | Citizenship or Place of Organization<br>Cayman Islands   |                                     |
| NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH | 5.   | Sole Voting Power<br>0              |
|   | 6.   | Shared Voting Power<br>560,602      |
|   | 7.   | Sole Dispositive Power<br>0         |
|   | 8.   | Shared Dispositive Power<br>560,602 |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>560,602  |                                     |
| 10.   | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)<br><input type="checkbox"/>                                |                                     |
| 11.   | Percent of Class Represented by Amount in Row (9)<br>5.21%   |                                     |
| 12.   | Type of Reporting Person (See Instructions)<br>PN  |                                     |

|   |  |                                     |
|---|--|-------------------------------------|
| CUSIP No.   | 007624307  |                                     |
| 1.  | Names of Reporting Persons<br>aMoon Growth Fund G.P. Limited Partnership   |                                     |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input checked="" type="checkbox"/><br>(b) <input type="checkbox"/> |                                     |
| 3.  | SEC Use Only   |                                     |
| 4.  | Citizenship or Place of Organization<br>Israel   |                                     |
| NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH | 5.   | Sole Voting Power<br>0              |
|   | 6.   | Shared Voting Power<br>560,602      |
|   | 7.   | Sole Dispositive Power<br>0         |
|   | 8.   | Shared Dispositive Power<br>560,602 |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>560,602  |                                     |
| 10.   | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)<br><input type="checkbox"/>                                |                                     |
| 11.   | Percent of Class Represented by Amount in Row (9)<br>5.21%   |                                     |
| 12.   | Type of Reporting Person (See Instructions)<br>PN  |                                     |

|   |  |                                     |
|---|--|-------------------------------------|
| CUSIP No.   | 007624307  |                                     |
| 1.  | Names of Reporting Persons<br>aMoon General Partner Ltd.   |                                     |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input checked="" type="checkbox"/><br>(b) <input type="checkbox"/> |                                     |
| 3.  | SEC Use Only   |                                     |
| 4.  | Citizenship or Place of Organization<br>Israel   |                                     |
| NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH | 5.   | Sole Voting Power<br>0              |
|   | 6.   | Shared Voting Power<br>560,602      |
|   | 7.   | Sole Dispositive Power<br>0         |
|   | 8.   | Shared Dispositive Power<br>560,602 |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>560,602  |                                     |
| 10.   | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)<br><input type="checkbox"/>                                |                                     |
| 11.   | Percent of Class Represented by Amount in Row (9)<br>5.21%   |                                     |
| 12.   | Type of Reporting Person (See Instructions)<br>CO  |                                     |

|   |  |                                     |
|---|--|-------------------------------------|
| CUSIP No.   | 007624307  |                                     |
| 1.  | Names of Reporting Persons<br>Dr. Yair C. Schindel   |                                     |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input checked="" type="checkbox"/><br>(b) <input type="checkbox"/> |                                     |
| 3.  | SEC Use Only   |                                     |
| 4.  | Citizenship or Place of Organization<br>Israel   |                                     |
| NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH | 5.   | Sole Voting Power<br>0              |
|   | 6.   | Shared Voting Power<br>560,602      |
|   | 7.   | Sole Dispositive Power<br>0         |
|   | 8.   | Shared Dispositive Power<br>560,602 |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>560,602  |                                     |
| 10.   | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)<br><input type="checkbox"/>                                |                                     |
| 11.   | Percent of Class Represented by Amount in Row (9)<br>5.21%   |                                     |
| 12.   | Type of Reporting Person (See Instructions)<br>IN  |                                     |

**Item 1(a) Name of Issuer**

Ayala Pharmaceuticals, Inc. (the “Issuer”).

**Item 1(b) Address of Issuer’s Principal Executive Offices**

9 Deer Park Drive, Suite K-1, Monmouth Junction, NJ 08852.

**Item 2(a)-(b) Name of Person Filing; Address of Principal Business Office or, if none, Residence**

1. aMoon Growth Fund Limited Partnership (“aMoon”), 34 Yerushalaim Rd, Beit Gamla, 6th Floor, Ra’anana, 4350110, Israel.
2. aMoon Growth Fund G.P. Limited Partnership (“aMoon G.P.”), 34 Yerushalaim Rd, Beit Gamla, 6th Floor, Ra’anana, 4350110, Israel.
3. aMoon General Partner Ltd. (“aMoon Ltd.”), 34 Yerushalaim Rd, Beit Gamla, 6th Floor, Ra’anana, 4350110, Israel.
4. Dr. Yair C. Schindel (“Schindel”), 34 Yerushalaim Rd, Beit Gamla, 6th Floor, Ra’anana, 4350110, Israel.

The foregoing persons are hereinafter collectively referred to as the “Reporting Persons”.

**Item 2(c) Citizenship**

aMoon is a Cayman Islands exempted limited partnership; aMoon G.P. is an Israeli limited partnership; aMoon Ltd. is an Israeli company; and Schindel is an Israeli citizen.

**Item 2(d) Title of Class of Securities**

Common Stock, par value \$0.001 per share

**Item 2(e) CUSIP Number**

007624307

**Item 3 If this Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:**

Not applicable.

**Item 4 Ownership**

*aMoon Growth Fund Limited Partnership*

(a) Amount beneficially owned: 560,602 shares of Common Stock.

All share percentage calculation are based on 10,751,801 shares of Common Stock outstanding, based on the sum of: (i) 4,838,321 shares of Common Stock issued and outstanding as of August 10, 2023, according to the Issuer’s Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 2023; and (ii) issuance of approximately 5,913,480 shares of Common Stock on October 18, 2023 as set forth in the Issuer’s Current Report on Form 8-K, as filed with the Securities and Exchange Commission on October 20, 2023.

(b) Percent of Class: 5.21%

- (c) Number of shares as to which the person has:
- (i) Sole power to vote or direct the vote: 0
  - (ii) Shared power to vote or to direct the vote: 560,602 shares of Common Stock
  - (iii) Sole power to dispose or to direct the disposition of: 0
  - (iv) Shared power to dispose or to direct the disposition of: 560,602 shares of Common Stock

*aMoon Growth Fund G.P. Limited Partnership*

- (a) Amount beneficially owned: 560,602 shares of Common Stock. aMoon G.P. is the sole general partner of aMoon. By virtue of such relationship, aMoon G.P. may be deemed to have shared voting and investment power with respect to the shares of Common Stock of the Issuer held by aMoon.

All share percentage calculation are based on 10,751,801 shares of Common Stock outstanding, based on the sum of: (i) 4,838,321 shares of Common Stock issued and outstanding as of August 10, 2023, according to the Issuer's Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 2023; and (ii) issuance of approximately 5,913,480 shares of Common Stock on October 18, 2023 as set forth in the Issuer's Current Report on Form 8-K, as filed with the Securities and Exchange Commission on October 20, 2023.

- (b) Percent of Class: 5.21%

- (c) Number of shares as to which the person has:
- (i) Sole power to vote or direct the vote: 0
  - (ii) Shared power to vote or to direct the vote: 560,602 shares of Common Stock
  - (iii) Sole power to dispose or to direct the disposition of: 0
  - (iv) Shared power to dispose or to direct the disposition of: 560,602 shares of Common Stock

*aMoon General Partner Ltd.*

- (a) Amount beneficially owned: 560,602 shares of Common Stock. aMoon Ltd. is the sole general partner of aMoon G.P. By virtue of such relationships, aMoon Ltd. may be deemed to have shared voting and investment power with respect to the shares of Common Stock of the Issuer held by aMoon.

All share percentage calculation are based on 10,751,801 shares of Common Stock outstanding, based on the sum of: (i) 4,838,321 shares of Common Stock issued and outstanding as of August 10, 2023, according to the Issuer's Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 2023; and (ii) issuance of approximately 5,913,480 shares of Common Stock on October 18, 2023 as set forth in the Issuer's Current Report on Form 8-K, as filed with the Securities and Exchange Commission on October 20, 2023.

- (b) Percent of Class: 5.21%

- (c) Number of shares as to which the person has:
- (i) Sole power to vote or direct the vote: 0
  - (ii) Shared power to vote or to direct the vote: 560,602 shares of Common Stock
  - (iii) Sole power to dispose or to direct the disposition of: 0
  - (iv) Shared power to dispose or to direct the disposition of: 560,602 shares of Common Stock

*Dr. Yair C. Schindel*

- (a) Amount beneficially owned: 560,602 shares of Common Stock. Schindel is the sole shareholder of aMoon Ltd. By virtue of such relationships, Schindel may be deemed to have shared voting and investment power with respect to the shares of Common Stock of the Issuer held by aMoon. Schindel disclaims beneficial ownership of the shares of Common Stock of the Issuer held by aMoon, aMoon G.P. and aMoon Ltd., except to the extent of his pecuniary interest therein, if any.

All share percentage calculation are based on 10,751,801 shares of Common Stock outstanding, based on the sum of: (i) 4,838,321 shares of Common Stock issued and outstanding as of August 10, 2023, according to the Issuer's Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 2023; and (ii) issuance of approximately 5,913,480 shares of Common Stock on October 18, 2023 as set forth in the Issuer's Current Report on Form 8-K, as filed with the Securities and Exchange Commission on October 20, 2023.

(b) Percent of Class: 5.21%

(c) Number of shares as to which the person has:

(i) Sole power to vote or direct the vote: 0

(ii) Shared power to vote or to direct the vote: 560,602 shares of Common Stock

(iii) Sole power to dispose or to direct the disposition of: 0

(iv) Shared power to dispose or to direct the disposition of: 560,602 shares of Common Stock

**Item 5 Ownership of Five Percent or Less of a Class**

Not applicable.

**Item 6 Ownership of More than Five Percent on Behalf of Another Person**

Not applicable.

**Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company**

Not applicable.

**Item 8 Identification and Classification of Members of the Group**

Incorporated by reference to Items 2 and 4 of this Schedule 13G.

**Item 9 Notice of Dissolution of Group**

Not applicable.

**Item 10 Certification**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.



**Signature**

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

Dated: October 23, 2023

**AMOON GROWTH FUND LIMITED  
PARTNERSHIP  
BY: AMOON GROWTH FUND G.P. LIMITED  
PARTNERSHIP, ITS GENERAL PARTNER  
BY: AMOON GENERAL PARTNER LTD., ITS  
GENERAL PARTNER**

By: /s/ Dr. Yair C. Schindel

Name: Dr. Yair C. Schindel

Title: Director

**AMOON GROWTH FUND G.P. LIMITED  
PARTNERSHIP  
BY: AMOON GENERAL PARTNER LTD., ITS  
GENERAL PARTNER**

By: /s/ Dr. Yair C. Schindel

Name: Dr. Yair C. Schindel

Title: Director

**AMOON GENERAL PARTNER LTD.**

By: /s/ Dr. Yair C. Schindel

Name: Dr. Yair C. Schindel

Title: Director

**DR. YAIR C. SCHINDEL**

By: /s/ Dr. Yair C. Schindel