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

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**FORM 8-A**

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**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) OR (g) OF  
THE SECURITIES EXCHANGE ACT OF 1934**

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**Renalytix AI plc**

(Exact name of registrant as specified in its charter)

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**England and Wales**  
(State or other jurisdiction of incorporation or organization)

**Not applicable**  
(I.R.S. Employer Identification No.)

**Avon House  
19 Stanwell Road  
Penarth  
Cardiff CF64 2EZ  
United Kingdom**  
(Address of principal executive offices)

**Not applicable**  
(Zip code)

**Securities to be registered pursuant to Section 12(b) of the Act:**

<u>Title of each class to be so registered</u>
<b>American Depositary Shares, each representing two ordinary shares, nominal value £0.0025 per share</b>
<b>Ordinary shares, nominal value £0.0025 per share*</b>

<u>Name of exchange on which each class is to be registered</u>
<b>The Nasdaq Stock Market LLC</b>
<b>The Nasdaq Stock Market LLC*</b>

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If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), please check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d), check the following.

If this form relates to the registration of a class of securities concurrently with a Regulation A offering, check the following box.

**Securities Act registration statement or Regulation A offering statement file number to which this form relates: 333-239414**

**Securities to be registered pursuant to Section 12(g) of the Act: None.**

\* Not for trading, but only in connection with the listing of the American Depositary Shares on The Nasdaq Stock Market LLC. The American Depositary Shares represent the right to receive ordinary shares and are being registered under the Securities Act of 1933, as amended, pursuant to a separate Registration Statement on Form F-6. Accordingly, the American Depositary Shares are exempt from the operation of Section 12(a) of the Securities Exchange Act of 1934, as amended, pursuant to Rule 12a-8 thereunder.

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**Item 1. Description of Registrant’s Securities to be Registered.**

Renalytix AI plc (the “Company”) hereby incorporates by reference (a) the description of its ordinary shares, nominal value £0.0025 per share, contained under the heading “*Description of share capital and articles of association,*” (b) the description of its American Depositary Shares, each representing two ordinary shares, nominal value £0.0025 per share, contained under the heading “*Description of American Depositary Shares*” and (c) the information set forth under the heading “*Material income tax considerations,*” in each case, in the Company’s Registration Statement on [Form F-1 \(File No. 333-239414\), as originally filed with the Securities and Exchange Commission on June 24, 2020](#), as amended from time to time (the “Registration Statement”). In addition, all of the above-referenced descriptions included in any prospectus forming a part of the Registration Statement subsequently filed with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, shall be deemed to be incorporated by reference herein.

**Item 2. Exhibits.**

Pursuant to the Instructions as to Exhibits for Form 8-A, no exhibits are required to be filed because no other securities of the Registrant are registered on The Nasdaq Stock Market LLC and the securities registered hereby are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended.

**SIGNATURE**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized.

RENALYTIX AI PLC

Date: July 13, 2020

By: /s/ James McCullough

Name: James McCullough

Title: Chief Executive Officer

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