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

**SCHEDULE 13G**

Under the Securities Act of 1934

(Amendment No. 1)\*

**RENALYTIX AI plc**

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(Name of Issuer)

ORDINARY SHARES  
(Including Ordinary Shares Underlying American Depository Shares)

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(Title of Class of Securities)

75973T101 (American Depository Shares)

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(CUSIP Number)

March 31, 2022

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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 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 the disclosures provided in a prior cover page.

The information required in 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> ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI ("ISMMS") EIN 13-6171197	
<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>CITIZENSHIP OR PLACE OF ORGANIZATION</b> New York	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	<b>SOLE VOTING POWER</b> 10,161,375 <sup>(1)</sup>
	<b>6</b>	<b>SHARED VOTING POWER</b> 0
	<b>7</b>	<b>SOLE DISPOSITIVE POWER</b> 10,161,375 <sup>(1)</sup>
	<b>8</b>	<b>SHARED DISPOSITIVE POWER</b> 0
<b>9</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 10,161,375 <sup>(1)</sup>	
<b>10</b>	<b>CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>11</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)</b> 13.6% <sup>(2)</sup>	
<b>12</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> CO	

(1) Includes 204,501 Ordinary Shares issuable upon exercise of vested options ("Options"). The voting and investment authority of the Ordinary Shares is vested in those persons who from time to time are the executive officers of ISMMS.

(2) Ownership calculation based on 74,760,432 Ordinary Shares to be outstanding as of April 12, 2022, as reported by the Issuer in a press release dated April 8, 2022.

<b>1</b>	<b>NAMES OF REPORTING PERSONS</b> THE MOUNT SINAI HOSPITAL ("MSH") 13-1624096	
<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>CITIZENSHIP OR PLACE OF ORGANIZATION</b> New York	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	<b>SOLE VOTING POWER</b> 1,897,500 <sup>(1)</sup>
	<b>6</b>	<b>SHARED VOTING POWER</b> 0
	<b>7</b>	<b>SOLE DISPOSITIVE POWER</b> 1,897,500 <sup>(1)</sup>
	<b>8</b>	<b>SHARED DISPOSITIVE POWER</b> 0
<b>9</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 1,897,500 <sup>(1)</sup>	
<b>10</b>	<b>CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>11</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)</b> 2.5% <sup>(2)</sup>	
<b>12</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> CO	

(1) MSH is the record and beneficial owner of 948,750 American Depositary Shares ("ADS"), equivalent to a total of 1,897,500 Ordinary Shares. Each ADS represents the right to receive two Ordinary Shares of Issuer. The voting and investment authority of the ADS, and underlying Ordinary Shares, is vested in those persons who from time to time are the executive officers of MSH.

(2) Ownership calculation based on 74,760,432 Ordinary Shares to be outstanding as of April 12, 2022, as reported by the Issuer in a press release dated April 8, 2022.

<b>1</b>	<b>NAMES OF REPORTING PERSONS</b> MOUNT SINAI HOSPITAL GROUP, INC. ("MSHG") 46-4242915	
<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>CITIZENSHIP OR PLACE OF ORGANIZATION</b> New York	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	<b>SOLE VOTING POWER</b> 0
	<b>6</b>	<b>SHARED VOTING POWER</b> 0
	<b>7</b>	<b>SOLE DISPOSITIVE POWER</b> 0
	<b>8</b>	<b>SHARED DISPOSITIVE POWER</b> 0
<b>9</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 0 (1)	
<b>10</b>	<b>CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>11</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)</b> 0%	
<b>12</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> HC	

(1) As the sole member of MSH, MSHG may be deemed to beneficially own the ADS, and Ordinary Shares underlying ADS, held by MSH. MSHG disclaims beneficial ownership of all such securities.

<b>1</b>	<b>NAMES OF REPORTING PERSONS</b> MOUNT SINAI HOSPITAL SYSTEM, INC. ("MSHS") 46-4248304	
<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>CITIZENSHIP OR PLACE OF ORGANIZATION</b> New York	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	<b>SOLE VOTING POWER</b> 0
	<b>6</b>	<b>SHARED VOTING POWER</b> 0
	<b>7</b>	<b>SOLE DISPOSITIVE POWER</b> 0
	<b>8</b>	<b>SHARED DISPOSITIVE POWER</b> 0
<b>9</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 0 (1)	
<b>10</b>	<b>CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>11</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)</b> 0%	
<b>12</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> HC	

(1) As the sole member of ISMMS, MSHS may be deemed to beneficially own the Ordinary Shares and Options, and Ordinary Shares underlying Options, held by ISMMS. As the sole member of MSHG, MSHS may be deemed to beneficially own the ADS, and Ordinary Shares underlying ADS, held by MSH. MSHS disclaims beneficial ownership of all such securities.

**Item1.(a) Name of Issuer:**

Renalytix AI plc

**(b) Address of Issuer's Principal Executive Offices:**

Finsgate  
5-7 Cranwood Street  
London EC1V 9EE  
United Kingdom

**Item2. (a) Name of Persons Filing:**

Collectively the following Reporting Persons are referred to as the "Joint Filers":  
Icahn School of Medicine at Mount Sinai ("ISMMS")  
The Mount Sinai Hospital ("MSH")  
Mount Sinai Hospitals Group, Inc. ("MSHG"), sole member of MSH  
Mount Sinai Hospital System ("MSHS"), sole member of each of ISMMS and MSHG

The Joint Filers may be deemed to collectively own an aggregate of 12,058,875 ordinary shares (the "Aggregate Ordinary Shares") of Issuer, including (i) Ordinary Shares owned of record by ISMMS, (ii) Ordinary Shares underlying Options beneficially owned by ISMMS, and (iii) Ordinary Shares underlying ADS owned of record by MSH. Each of MSHS and MSHG disclaims beneficial ownership of the Aggregate Ordinary Shares.

Issuer's ADSs trade on the NASDAQ Global Market and Ordinary Shares trade on AIM, a market operated by the London Stock Exchange.

**(b) Address of Principal Business Office or, if none, Residence:**

The address of the principal business office of each Reporting Person is:  
One Gustave L. Levy Place  
New York, NY 10029

**(c) Citizenship:**

See Item 4 of the cover pages for citizenship or place of organization of each Reporting Person.

**(d) Title of Class of Securities:**

Ordinary Shares (including Ordinary Shares underlying American Depositary Shares).

**(e) CUSIP Number:**

Only the America Depositary Shares have a CUSIP Number, which is 75973T101.

**Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**

- (a)  Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o);
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8);
- (e)  An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h)  A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act (15 U.S.C. 80a-3);
- (j)  A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
- (k)  Group, in accordance with § 240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

**Item 4. Ownership.**

The information set forth in Rows 5 through 11 on the cover page for each Reporting Person is hereby incorporated by reference into this Item 4 as set forth below:

(a) Amount beneficially owned:

See Row 9 of cover page for each Reporting Person.

(b) Percent of class:

See Row 11 of cover page for each Reporting Person.

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

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

See Row 5 of cover page for each Reporting Person.

(ii) Shared power to vote or to direct the vote

See Row 6 of cover page for each Reporting Person.

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

See Row 7 of cover page for each Reporting Person.

(iv) Shared power to dispose or to direct the disposition of

See Row 8 of cover page for each Reporting Person.

**Item 5. Ownership of Five Percent or Less of a Class:** If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following c.

**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 or Control Persons.**

See Item 2 above.

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

Not applicable.

**Item 9. Notice of Dissolution of Group.**

Not applicable.

**Item 10. Certification.**

Not applicable.

**SIGNATURE**

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

Dated: May 26, 2022

**ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI**

By: /s/ Stephen Harvey  
Name: Stephen Harvey  
Title: Chief Financial Officer

**THE MOUNT SINAI HOSPITAL**

By: /s/ Stephen Harvey  
Name: Stephen Harvey  
Title: Chief Financial Officer

**MOUNT SINAI HEALTH SYSTEM, INC.**

By: /s/ Stephen Harvey  
Name: Stephen Harvey  
Title: Chief Financial Officer

**MOUNT SINAI HOSPITALS GROUP, INC.**

By: /s/ Stephen Harvey  
Name: Stephen Harvey  
Title: Chief Financial Officer

**Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)**