

Edgar Filing: EDWARDS LIFESCIENCES CORP - Form SC 13G

EDWARDS LIFESCIENCES CORP
Form SC 13G
February 13, 2008

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G
(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO RULES 13d-1 (b) (c), AND (d) AND AMENDMENTS THERETO FILED
PURSUANT TO RULE 13d-2 (b)

EDWARDS LIFESCIENCES CORPORATION

(Name of Issuer)

Common Stock, \$1.00 par value

(Title of Class of Securities)

28176E108

(CUSIP Number)

October 3, 2007

(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 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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CUSIP No. 28176E108

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1. NAMES OR REPORTING PERSONS
S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS

Renaissance Technologies LLC

26-0385758

- 2. CHECK APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

- (a)
(b)

- 3. SEC USE ONLY

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4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER
2,865,800

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH
6. SHARED VOTING POWER
0

7. SOLE DISPOSITIVE POWER
2,865,800

8. SHARED DISPOSITIVE POWER
0

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,865,800

10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

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11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.05%

12. TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IA

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1. NAMES OR REPORTING PERSONS

S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS

James H. Simons

2. CHECK APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

(a) |_ |

(b) |_ |

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

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United States

	5.	SOLE VOTING POWER	
			2,865,800
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6.	SHARED VOTING POWER	0
	7.	SOLE DISPOSITIVE POWER	2,865,800
	8.	SHARED DISPOSITIVE POWER	0
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2,865,800		
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)		
	_		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	5.05%		
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)		
	IN		

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Item 1.

(a) Name of Issuer.

EDWARDS LIFESCIENCES CORPORATION

(b) Address of Issuer's Principal Executive Offices.

One Edwards Way
Irvine, California 92614

Item 2.

(a) Name of Person Filing.

This Schedule 13G is being filed by Renaissance Technologies LLC
("RTC") and James H. Simons ("Simons").

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

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The principal business address of the reporting persons is:

800 Third Avenue
New York, New York 10022

(c) Citizenship.

Dr. Simons is a United States citizen and
RTC is a Delaware limited liability company

(d) Title of Class of Securities.

Common stock, \$1.00 par value

(e) CUSIP Number.

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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:

- (a) Broker or dealer registered under Section 15 of the Act.
- (b) Bank as defined in Section 3(a)(6) of the Act.
- (c) Insurance Company as defined in Section 3(a)(19) of the Act.
- (d) Investment Company registered under Section 8 of the Investment Company Act.
- (e) Investment Adviser in accordance with Sec. 240.13d-1(b)(1)(ii)(E).
- (f) Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1(b)(1)(ii)(F).
- (g) Parent holding company, in accordance with Sec. 240.13d-1(b)(ii)(G).
- (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940.
- (j) Group, in accordance with Sec. 240.13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Sec. 240.13d-1(c), check this box .

Item 4. Ownership

(a) Amount Beneficially Owned.

RTC: 2,865,800 shares

Simons: 2,865,800 shares, comprising the shares beneficially owned by RTC, because of Dr. Simons' position as control person of RTC.

(b) Percent of Class. RTC: 5.05%
Simons: 5.05%

(c) Number of shares as to which each such person has

(i) sole power to vote or to direct the vote: RTC: 2,865,800

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Simons: 2,865,800

(ii) shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of: RTC: 2,865,800
Simons: 2,865,800

(iv) shared power to dispose or to direct the disposition of: 0

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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

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

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not applicable.

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

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

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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.

Date: February 12, 2008

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/s/ James H. Simons

James H. Simons

Renaissance Technologies LLC

By: /s/ Mark Silber

Mark Silber
Executive Vice President

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

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