EXACT SCIENCES CORP Form SC 13D/A July 14, 2010

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment No. 2)*

EXACT Sciences Corporation

(Name of Issuer)

Common Stock, par value \$0.01 per share

(Title of Class of Securities)

30063P105

(CUSIP Number)

Peter Wirth

Genzyme Corporation

500 Kendall Street

Cambridge, Massachusetts 02142

(617) 252-7500

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

with copies to:

Paul Kinsella

Ropes & Gray LLP

One International Place

Boston, Massachusetts 02110

(617) 951-7000

July 9, 2010

(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 which 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. o

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See § 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.

(Continued on following pages)

CUSIP No.	30063P105	13D
1.	Names of Reporting Pe Genzyme Corporation	ersons
2.	Check the Appropriate (a) (b)	Box if a Member of a Group o o
3.	SEC Use Only	
4.	Source of Funds Not Applicable	
5.	Check Box if Disclosu	re of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) o
6.	Citizenship or Place of Massachusetts	Organization
	7.	Sole Voting Power 0
Number of Shares Beneficially	8.	Shared Voting Power
Owned by Each Reporting	9.	Sole Dispositive Power 0
Person With	10.	Shared Dispositive Power
11.	Aggregate Amount Be	neficially Owned by Each Reporting Person
12.	Check if the Aggregate	e Amount in Row (11) Excludes Certain Shares o
13.	Percent of Class Repre 0.00%	esented by Amount in Row (11)
14.	Type of Reporting Per-	son

Item 1. Security and Issuer

This Amendment No. 2 amends and supplements the Schedule 13D filed on February 6, 2009, as amended on April 20, 2010 and (the Amended 13D) relating to the Common Stock, \$0.01 par value per share (the *Common Stock*), of EXACT Sciences Corporation (the *Issuer*), a Delaware corporation.

Items 4 and 5 of the Amended 13D are amended and supplemented as follows. Capitalized terms used but not otherwise defined herein have the meanings ascribed to them in the Amended 13D.

Item 4. Purpose of Transaction

Item 4 is amended and supplemented by inserting the following text at the end of that item:

On July 9, 2010, Genzyme disposed of all shares of Common Stock of the Issuer which it held.

Item 5. Interest in Securities of the Issuer

The following subsections of Item 5 are hereby amended and restated to read as follows:

(a) Genzyme has no beneficial ownership of Common Stock of the Issuer. As of April 27, 2010, Connie Mack III beneficially owns and has sole power to vote and sole power of disposition over 202,274(1) shares of Common Stock of the Issuer, representing approximately 0.5% of the Issuer Common Stock issued and outstanding as of that date.

Other than as provided in this Item 5, Genzyme, nor, to the knowledge of Genzyme, any person listed on Schedule 1, owns or has any rights to acquire, directly or indirectly, any shares of Common Stock of the Issuer.

(c) Genzyme effected the following transactions with respect to shares of Common Stock of the Issuer during the past sixty (60) days. All such sales were made in conformity with the requirements of Rule 144 under the Securities Act of 1933, as amended.

Date	No. of Shares Sold	Price Per Share
7 9 10	2 524 170	\$ 3.80

(e) On July 9, 2010, Genzyme ceased to be the beneficial owner of more than 5% of Common Stock of the Issuer.

⁽¹⁾ Represents the number of shares owned by Senator Mack and the number of shares issuable to Senator Mack pursuant to options or warrants that may be exercised within 60 days as of April 27, 2010 based on the Issuer s proxy statement filed with the Securities and Exchange Commission on April 30, 2010.

SIGNATURES

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

Dated: July 14, 2010

GENZYME CORPORATION

By: /s/ Michael S. Wyzga Name: Michael S. Wyzga

Title: Executive Vice President, Finance and

Chief Financial Officer

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SCHEDULE 1

DIRECTORS AND EXECUTIVE OFFICERS OF GENZYME CORPORATION

Set forth below is the name, present principal occupation or employment and the name, principal business and address of any corporation or other organization in which such employment is conducted for each director and executive officer of Genzyme. Unless otherwise indicated, each individual is a citizen of the United States, and his or her business address is c/o Genzyme Corporation, 500 Kendall Street, Cambridge, MA 02142.

Henri A. Termeer Chairman of the Board, President and Chief Executive Officer Genzyme Corporation Robert J. Bertolini Former Executive Vice President and Chief Financial Officer Schering-Plough c/o Genzyme Corporation 500 Kendall Street Cambridge, MA 02142 Douglas A. Berthiaume Chairman, President and Chief Executive Officer

Waters Corporation

Milford, Massachusetts 01757

34 Maple Street

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Gail Koziara Boudreaux		
Executive Vice President		
UnitedHealth Group		
9900 Bren Road E		
MN008-T030		
Minnetonka, MN 55343		
Steven J. Burakoff, M.D.		
The Tisch Cancer Institute at		
The Mount Sinai School of Medicine		
The Annenberg Building		
1468 Madison Avenue		
18th Floor, Room 18-80A		
New York, NY 10029		
Robert J. Carpenter		
Chairman		
Hydra Biosciences, Inc.		
790 Memorial Drive		
Cambridge, MA 02139		
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Charles L. Cooney
Professor of Chemical and Biochemical Engineering
Massachusetts Institute of Technology
Room 56-469B
77 Massachusetts Avenue
Cambridge, Massachusetts 02139
Victor J. Dzau
Chancellor for Health Affairs and President and Chief Executive Officer
Duke University Health System
106 Davidson Building
Durham, North Carolina 27710
Eric J. Ende, M.D.
102 via Palacio
Palm Beach Gardens, FL 33418
Connie Mack III
Government Relations Consulting Partner
Liberty Partners Group, LLC
1050 K Street, NW, Suite 315
Washington, DC 20001
Richard F. Syron
Former Chairman and Chief Executive Officer

Federal Home Loan Mortgage Corporation

c/o Genzyme Corporation

500 Kendall Street
Cambridge, Massachusetts 02142
Ralph V. Whitworth
Relational Investors LLC
12400 High Bluff Drive
Suite 600
San Diego, California 92130
Executive Officers
Henri A. Termeer
Chairman of the Board, President and Chief Executive Officer
Scott Canute
Executive Vice President; President, Global Manufacturing and Corporate Operations
Zoltan A. Csimma
Chief Human Resources Officer; Senior Vice President
Thomas J. DesRosier
Senior Vice President; General Counsel; Chief Legal Officer
James A. Geraghty
Senior Vice President
David P. Meeker, M.D.
Executive Vice President and Chief Operating Officer

Richard A. Moscicki, M.D.
Chief Medical Officer; Senior Vice President, Medical, Clinical Affairs
Alan E. Smith, Ph.D.
Chief Scientific Officer; Senior Vice President, Research
Sandford D. Smith
Executive Vice President; President, International Group
Peter Wirth
Executive Vice President, Legal and Corporate Development; Secretary
Michael S. Wyzga
Chief Financial Officer; Executive Vice President, Finance
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