GENOMIC HEALTH INC Form SC 13D/A August 13, 2010

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

SCHEDULE 13D Under the Securities Exchange Act of 1934

(Amendment No. 6)

Genomic Health, Inc (Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

37244C101 (CUSIP Number)

Leo Kirby 667 Madison Avenue, 21st Floor New York, NY 10065 (212) 339-5633

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

August 12, 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 that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 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 Rule 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 (the "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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SCHEDULE 13D

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- NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS Julian C. Baker
- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) o GROUP (See Instructions) (b) o
- 3 SEC USE ONLY
- 4 SOURCE OF FUNDS (See Instructions) WC
- 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS OF IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)
- 6 CITIZENSHIP OR PLACE OF ORGANIZATION United States

NUMBER OF SHARES BENEFICIALLY OWNED BY	7	SOLE VOTING POWER 41,250
	8	SHARED VOTING POWER 6,510,937
EACH REPORTING PERSON	9	SOLE DISPOSITIVE POWER 41,250
WITH	10	SHARED DISPOSITIVE POWER 6.510.937

- AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 6,552,187
- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES of CERTAIN SHARES (See Instructions)
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 22.7%
- 14 TYPE OF REPORTING PERSON (See Instructions) IN

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SCHEDULE 13D

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- $1 \frac{\text{NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS Felix J. Baker}{}$
- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) o GROUP (See Instructions) (b) o
- 3 SEC USE ONLY
- 4 SOURCE OF FUNDS (See Instructions) WC
- 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS OF IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)
- 6 CITIZENSHIP OR PLACE OF ORGANIZATION United States

NUMBER OF	7	SOLE VOTING POWER 0
SHARES BENEFICIALLY OWNED BY	8	SHARED VOTING POWER 6,510,937
EACH REPORTING PERSON	9	SOLE DISPOSITIVE POWER 0
WITH	10	SHARED DISPOSITIVE POWER 6,510,937

- AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 6,510,937
- 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES o CERTAIN SHARES (See Instructions)
- 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 22.6%
- 14 TYPE OF REPORTING PERSON (See Instructions) IN

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This Amendment No. 6 to Schedule 13D is being filed by Julian C. Baker and Felix J. Baker (the "Reporting Persons") to supplement the statements on Schedule 13D previously filed by them, as heretofore amended. Except as supplemented herein, such statements, as heretofore amended and supplemented, remain in full force and effect.

Item 5. Interest in Securities of the Issuer.

Set forth below is the aggregate number of shares of Common Stock held, including shares that maybe acquired upon exercise of Options as of the date hereof by each of the following, together with the percentage of outstanding shares of Common Stock that such number represents based upon 28,823,369 shares outstanding, as reported on the company's SEC Form 10Q filed on August 9, 2010. Such percentage figures are calculated on the basis that the Options owned by the Reporting Persons are deemed exercised for shares of Common Stock but other outstanding Options are not deemed exercised.

		Percent of
	Number of	Class
Name	Shares	Outstanding
Baker Bros. Investments, L.P.	173,897	0.6%
Baker Bros. Investments II, L.P.	20,287	0.1%
667, L.P.	1,253,653	4.4%
Baker Brothers Life Sciences, L.P.	4,570,896	15.8%
14159, L.P.	124,146	0.4%
FBB Associates	173,897	0.6%
Baker/Tisch Investments, L.P.	194,161	0.7%
Julian C. Baker	41,250	0.1%
Total	6,552,187	22.7%

By virtue of their ownership of entities that have the power to control the investment decisions of the limited partnerships listed in the table above, Julian C. Baker and Felix J. Baker may each be deemed to be beneficial owners of shares owned by such entities and may be deemed to have shared power to vote or direct the vote of and shared power to dispose or direct the disposition of such securities. Julian C. Baker and Felix J. Baker are also the sole partners of FBB Associates, a general partnership, and as such may be deemed to be beneficial owners of shares owned by FBB Associates and may be deemed to have shared power to vote or direct the vote and dispose or direct the disposition of those shares.

Julian C. Baker is a Director of the Company.

The following transactions in Common Stock were effected by the entities noted below during the sixty days preceding the filing of this statement. None of the reporting Persons has effected any other transactions in Common Stock during this period.

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Name	Date	Number of		
				Price /
		Shares	Transaction	Share
	01610010	10.556	D 1	14 1002
Baker Brothers Life Sciences, L.P.	8/6/2010		Purchase	14.1823
14159, L.P.	8/6/2010		Purchase	14.1823
Baker Brothers Life Sciences, L.P.	8/6/2010		Purchase	14.1556
14159, L.P.	8/6/2010		Purchase	14.1556
Baker Brothers Life Sciences, L.P.	8/9/2010		Purchase	14.8042
14159, L.P.	8/9/2010		Purchase	14.8042
Baker Brothers Life Sciences, L.P.	8/9/2010		Purchase	14.8197
14159, L.P.	8/9/2010		Purchase	14.8197
Baker Brothers Life Sciences, L.P.	8/10/2010	,	Purchase	14.7896
14159, L.P.	8/10/2010		Purchase	14.7896
Baker Brothers Life Sciences, L.P.	8/10/2010	19,463	Purchase	14.6649
14159, L.P.	8/10/2010	537	Purchase	14.6649
Baker Brothers Life Sciences, L.P.	8/11/2010	18,893	Purchase	14.7418
14159, L.P.	8/11/2010	522	Purchase	14.7418
Baker Brothers Life Sciences, L.P.	8/11/2010	9,313	Purchase	14.7051
14159, L.P.	8/11/2010	257	Purchase	14.7051
Baker Brothers Life Sciences, L.P.	8/12/2010	12,294	Purchase	15.0119
14159, L.P.	8/12/2010	339	Purchase	15.0119
Baker Brothers Life Sciences, L.P.	8/12/2010	9,425	Purchase	14.9976
14159, L.P.	8/12/2010	260	Purchase	14.9976
Baker Brothers Life Sciences, L.P.	8/12/2010	8,577	Purchase	14.9389
14159, L.P.	8/12/2010	,	Purchase	14.9389
Baker Brothers Life Sciences, L.P.	8/13/2010	38,494	Purchase	14.8475
14159, L.P.	8/13/2010		Purchase	14.8475
Baker Brothers Life Sciences, L.P.	8/13/2010		Purchase	14.8070
14159, L.P.	8/13/2010		Purchase	14.8070
1.10, 2.1.	0,10,2010			1
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Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

Except as reported herein, neither of the Reporting Persons has any express contracts, arrangements or understandings with any other Reporting Person with respect to the securities of the Company. Except as set forth in Item 7 below, none of the Reporting Persons has any contracts, arrangements, understandings or relationships with the Company.

Item 7. Material to Be Filed as Exhibits.

Exhibit 1. Agreement regarding the joint filing of this statement.

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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.

August 13, 2010

By: /s/ Julian C. Baker Julian C. Baker

By: /s/ Felix J. Baker Felix J. Baker

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EXHIBIT 1

AGREEMENT

In accordance with Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agree that this Statement on Schedule 13D relating to the Common Stock, \$0.0001 par value, of Genomic Health, Inc. is being filed with the Securities and Exchange Commission on behalf of each of them.

August 13, 2010

By: /s/ Julian C. Baker Julian C. Baker

By: /s/ Felix J. Baker Felix J. Baker

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