

OMB APPROVAL	
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Estimated average burden hours per response:	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* BAKER BROS. ADVISORS LP (Last) (First) (Middle) 860 WASHINGTON STREET 3RD FLOOR (Street) NEW YORK NY 10014 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol GENOMIC HEALTH INC [GHDX]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 12/10/2018	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock							173,897	I	See footnotes ⁽¹⁾	
Common Stock	12/10/2018		S		132	D	\$73.8291 ⁽²⁾	206,748	I	See footnotes ⁽³⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/10/2018		S		9	D	\$73.8291 ⁽²⁾	51,760	I	See footnotes ⁽⁴⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/10/2018		S		118	D	\$73.8291 ⁽²⁾	189,386	I	See footnotes ⁽⁵⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/10/2018		S		204	D	\$73.8291 ⁽²⁾	297,282	I	See footnotes ⁽⁶⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/10/2018		S		1,185	D	\$73.8291 ⁽²⁾	1,530,573	I	See footnotes ⁽⁷⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/10/2018		S		7,718	D	\$73.8291 ⁽²⁾	9,746,410	I	See footnotes ⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		597	D	\$74.8839 ⁽¹²⁾	206,151	I	See footnotes ⁽³⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		41	D	\$74.8839 ⁽¹²⁾	51,719	I	See footnotes ⁽⁴⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		534	D	\$74.8839 ⁽¹²⁾	188,852	I	See footnotes ⁽⁵⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		921	D	\$74.8839 ⁽¹²⁾	296,361	I	See footnotes ⁽⁶⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		5,342	D	\$74.8839 ⁽¹²⁾	1,525,231	I	See footnotes ⁽⁷⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		34,794	D	\$74.8839 ⁽¹²⁾	9,711,616	I	See footnotes ⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		216	D	\$71.8141 ⁽¹³⁾	205,935	I	See footnotes ⁽³⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		15	D	\$71.8141 ⁽¹³⁾	51,704	I	See footnotes ⁽⁴⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		194	D	\$71.8141 ⁽¹³⁾	188,658	I	See footnotes ⁽⁵⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	12/11/2018		S		334	D	\$71.8141 ⁽¹³⁾	296,027	I	See footnotes ⁽⁶⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		1,939	D	\$71.8141 ⁽¹³⁾	1,523,292	I	See footnotes ⁽⁷⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/11/2018		S		12,627	D	\$71.8141 ⁽¹³⁾	9,698,989	I	See footnotes ⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/12/2018		S		262	D	\$73.0858 ⁽¹⁴⁾	205,673	I	See footnotes ⁽³⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/12/2018		S		18	D	\$73.0858 ⁽¹⁴⁾	51,686	I	See footnotes ⁽⁴⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/12/2018		S		234	D	\$73.0858 ⁽¹⁴⁾	188,424	I	See footnotes ⁽⁵⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/12/2018		S		403	D	\$73.0858 ⁽¹⁴⁾	295,624	I	See footnotes ⁽⁶⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/12/2018		S		2,340	D	\$73.0858 ⁽¹⁴⁾	1,520,952	I	See footnotes ⁽⁷⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Common Stock	12/12/2018		S		15,243	D	\$73.0858 ⁽¹⁴⁾	9,683,746	I	See footnotes ⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

1. Name and Address of Reporting Person*

[BAKER BROS. ADVISORS LP](#)

(Last) (First) (Middle)

860 WASHINGTON STREET
3RD FLOOR

(Street)

NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person*

[Baker Bros. Investments, L.P.](#)

(Last) (First) (Middle)

860 WASHINGTON STREET, 3RD FLOOR

(Street)

NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person *

[Baker/Tisch Investments, LP](#)

(Last) (First) (Middle)

860 WASHINGTON STREET, 3RD FLOOR

(Street)

NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person *

[14159, L.P.](#)

(Last) (First) (Middle)

860 WASHINGTON STREET, 3RD FLOOR

(Street)

NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person *

[667, L.P.](#)

(Last) (First) (Middle)

860 WASHINGTON STREET, 3RD FLOOR

(Street)

NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person *

[Baker Bros. Advisors \(GP\) LLC](#)

(Last) (First) (Middle)

860 WASHINGTON STREET
3RD FLOOR

(Street)

NEW YORK NY 10014

(City) (State) (Zip)

1. Name and Address of Reporting Person*		
Baker Brothers Life Sciences LP		
(Last)	(First)	(Middle)
860 WASHINGTON STREET 3RD FLOOR		
(Street)		
NEW YORK	NY	10014
(City) (State) (Zip)		
1. Name and Address of Reporting Person*		
BAKER FELIX		
(Last)	(First)	(Middle)
860 WASHINGTON STREET 3RD FLOOR		
(Street)		
NEW YORK	NY	10014
(City) (State) (Zip)		
1. Name and Address of Reporting Person*		
BAKER JULIAN		
(Last)	(First)	(Middle)
860 WASHINGTON STREET, 3RD FLOOR		
(Street)		
NEW YORK	NY	10014
(City) (State) (Zip)		
1. Name and Address of Reporting Person*		
Baker Bros. Investments II, L.P.		
(Last)	(First)	(Middle)
860 WASHINGTON STREET, 3RD FLOOR		
(Street)		
NEW YORK	NY	10014
(City) (State) (Zip)		

Explanation of Responses:

1. Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in 173,897 shares of common stock of Genomic Health, Inc. (the "Issuer") directly held by FBB Associates. Julian C. Baker and Felix J. Baker are the sole partners of FBB Associates. Julian C. Baker and Felix J. Baker disclaim beneficial ownership of the securities held directly by FBB Associates except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that either Julian C. Baker or Felix J. Baker is a beneficial owner of such securities for purposes of Section 16 or any other purpose.
2. The price reported in Column 4 is a weighted average price. These shares were traded by Baker/ Tisch Investments, L.P. ("Baker Tisch"), Baker Bros. Investments II, L.P. ("Bros II"), Baker Bros. Investments, L.P. ("Bros I"), 14159, L.P. ("14159"), 667, L.P. ("667") and Baker Brothers Life Sciences, L.P. ("Life Sciences") in multiple transactions at prices ranging from \$73.50 to \$74.01, inclusive. The reporting persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission (the "Staff"), upon request, full information regarding the number of shares traded at each separate price within the range set forth in this footnote.
3. After giving effect to the transactions reported herein and as a result of their ownership interest in Baker/Tisch Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held by Baker Tisch, a limited partnership of which the sole general partner is Baker/Tisch Capital, L.P., a limited partnership of which the sole general partner is Baker/Tisch Capital (GP), LLC, due to Baker/Tisch Capital, L.P.'s right to receive an allocation of a portion of the profits from Baker Tisch.
4. After giving effect to the transactions reported herein and as a result of their ownership interest in Baker Bros. Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held by Bros II, a limited partnership of which the sole general partner is Baker Bros. Capital, L.P., a limited partnership of which the sole general partner is Baker Bros. Capital (GP), LLC, due to Baker Bros. Capital, L.P.'s right to receive an allocation of a portion of the profits from Bros II.
5. After giving effect to the transactions reported herein and as a result of their ownership interest in Baker Bros. Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held by Bros I, a limited partnership of which the sole general partner is Baker Bros. Capital, L.P., a limited partnership of which the sole general partner is Baker Bros. Capital (GP), LLC, due to Baker Bros. Capital, L.P.'s right to receive an allocation of a portion of the profits from Bros I.
6. After giving effect to the transactions reported herein and as a result of their ownership interest in 14159 Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held by 14159, a limited partnership of which the sole general partner is 14159 Capital, L.P., a limited partnership of which the sole general partner is 14159 Capital (GP), LLC, due to 14159, L.P.'s right to receive an allocation of a portion of the profits from 14159.

7. After giving effect to the transactions reported herein and as a result of their ownership interest in Baker Biotech Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held by 667, a limited partnership of which the sole general partner is Baker Bros. Capital, L.P., a limited partnership of which the sole general partner is Baker Biotech Capital (GP), LLC, due to Baker Biotech Capital, L.P.'s right to receive an allocation of a portion of the profits from 667.
8. After giving effect to the transactions reported herein and as a result of their ownership interest in Baker Brothers Life Sciences Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held by Life Sciences, and together with Baker Tisch, Bros I, Bros II, 14159 and 667, (the "Funds"), a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital, L.P., a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital (GP), LLC, due to Baker Brothers Life Sciences Capital, L.P.'s right to receive an allocation of a portion of the profits from Life Sciences.
9. Includes beneficial ownership of 15,669 shares issued pursuant to the Stock Incentive Plan in lieu of director retainer fees and 24,750 shares which were received from exercise of 24,750 stock options of the Issuer that were issued to Julian C. Baker in his capacity as a director of the Issuer, of which the fund may be deemed to own a portion.
10. Baker Bros. Advisors LP (the "Adviser") serves as the investment adviser to the Funds. In connection with the services provided by the Adviser, the Adviser receives an asset-based management fee that does not confer any pecuniary interest in the securities held by the Funds. Baker Bros. Advisors (GP) LLC (the "Adviser GP") is the Adviser's sole general partner. Julian C. Baker and Felix J. Baker are managing members of the Adviser GP. The Adviser has complete and unlimited discretion and authority with respect to the investment and voting power of the securities held by the Funds. The general partners of the Funds relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds.
11. Julian C. Baker, Felix J. Baker, the Adviser GP and the Adviser disclaim beneficial ownership of the securities held directly by the Funds except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that any of Julian C. Baker, Felix J. Baker, the Adviser GP or the Adviser is a beneficial owner of such securities for purposes of Section 16 or any other purpose.
12. The price reported in Column 4 is a weighted average price. These shares were traded by the Funds in multiple transactions at prices ranging from \$74.48 to \$75.29, inclusive. The reporting persons undertake to provide to the Issuer, any security holder of the Issuer, or the Staff, upon request, full information regarding the number of shares traded at each separate price within the range set forth in this footnote.
13. The price reported in Column 4 is a weighted average price. These shares were traded by the Funds in multiple transactions at prices ranging from \$71.60 to \$71.92, inclusive. The reporting persons undertake to provide to the Issuer, any security holder of the Issuer, or the Staff, upon request, full information regarding the number of shares traded at each separate price within the range set forth in this footnote.
14. The price reported in Column 4 is a weighted average price. These shares were traded by the Funds in multiple transactions at prices ranging from \$72.70 to \$73.65, inclusive. The reporting persons undertake to provide to the Issuer, any security holder of the Issuer, or the Staff, upon request, full information regarding the number of shares traded at each separate price within the range set forth in this footnote.

Remarks:

Felix J. Baker and Julian C. Baker are directors of Genomic Health Inc. (the "Issuer"). By virtue of their representation on the Board of Directors of the Issuer, for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, the reporting persons are deemed directors by deputation of the Issuer. This is the first of two Form 4's reporting changes in beneficial ownership. Due to space limitations in Form 4 we are thus filing these two Forms 4.

[/s/ Baker Bros. Advisors LP,
Mgmt. Co. and Inv. Adviser to
Baker Bros. Investments,
L.P., pursuant to authority
granted by Baker Bros. 12/12/2018
Capital, L.P., GP to Baker
Bros. Investments, L.P.
Name: Scott L. Lessing, Title:
President /s/ Scott L. Lessing](#)

[/s/ Baker Bros. Advisors LP,
Mgmt. Co. and Inv. Adviser to
Baker/Tisch Investments,
L.P., pursuant to authority
granted by Baker/Tisch 12/12/2018
Capital, L.P., GP to
Baker/Tisch Investments, L.P.
Name: Scott L. Lessing, Title:
President /s/ Scott L. Lessing](#)

[By: Baker Bros. Advisors LP,
Name: Scott L. Lessing, Title: 12/12/2018
President /s/ Scott L. Lessing](#)

[Baker Bros. Advisors LP,
Mgmt. Co. and Inv. Adviser to
14159, L.P., pursuant to
authority granted by 14159 12/12/2018
Capital, L.P., GP to 14159,
L.P. Name: Scott L. Lessing,
Title: President /s/ Scott L.
Lessing](#)

[Baker Bros. Advisors LP,
Mgmt. Co. and Inv. Adviser to
667, L.P., pursuant to
authority granted by Baker 12/12/2018
Biotech Capital, L.P., GP to
667, L.P. Name: Scott L.
Lessing, Title: President /s/
Scott L. Lessing](#)

[By: Baker Bros. Advisors \(GP\)
LLC, Name: Scott L. Lessing, 12/12/2018
Title: President /s/ Scott L.
Lessing](#)

Baker Bros. Advisors LP,
Mgmt. Co. and Inv. Adviser to
BAKER BROTHERS LIFE
SCIENCES, L.P., pursuant to
authority granted by Baker 12/12/2018
Brothers Life Sciences
Capital, L.P., GP to Baker
Brothers Life Sciences, L.P.,
Name: Scott L. Lessing, Title:
President /s/
/s/ Felix J. Baker 12/12/2018
/s/ Julian C. Baker 12/12/2018
/s/ Baker Bros. Advisors LP,
Mgmt. Co. and Inv. Adviser to
Baker Bros. Investments II,
L.P.,pursuant to authority
granted by Baker Bros. 12/12/2018
Capital, L.P., GP to Baker
Bros. Investments II, L.P.
Name: Scott L. Lessing, Title:
President /s/ Scott L. Lessing
** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.