

GENOME THERAPEUTICS CORP  
Form SC 13G/A  
June 15, 2001

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 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 13d-2(b)  
(AMENDMENT NO. 2)1

GENOME THERAPEUTICS CORP.

-----  
(Name of Issuer)

COMMON STOCK

-----  
(Title of Class of Securities)

372430 10 8

-----  
(CUSIP Number)

JUNE 11, 2001

-----  
(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)

-----  
(1) 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 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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9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
94,576

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES\*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  
0.4%

12 TYPE OF REPORTING PERSON\*  
OO

\* SEE INSTRUCTIONS BEFORE FILLING OUT!

CUISP NO. 372430 10 8

13G

PAGE 5 OF 9

1 NAME OF REPORTING PERSON:  
BVF PARTNERS L.P.  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY):

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\* (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
DELAWARE

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5	SOLE VOTING POWER
	0

6	SHARED VOTING POWER
	587,800

7	SOLE DISPOSITIVE POWER
	0

8	SHARED DISPOSITIVE POWER
	587,800

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
587,800

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES\*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  
2.6%

12 TYPE OF REPORTING PERSON\*  
PN

\* SEE INSTRUCTIONS BEFORE FILLING OUT!

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CUISP NO. 372430 10 8

13G

PAGE 6 OF 9

1 NAME OF REPORTING PERSON:  
BVF INC.  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY):

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\* (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
DELAWARE

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER	0
	6	SHARED VOTING POWER	587,800
	7	SOLE DISPOSITIVE POWER	0
	8	SHARED DISPOSITIVE POWER	587,800

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
587,800

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES\*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  
2.6%

12 TYPE OF REPORTING PERSON\*  
IA, CO

\* SEE INSTRUCTIONS BEFORE FILLING OUT!

CUISP NO. 372430 10 8

13G

PAGE 7 OF 9

ITEM 1(a). NAME OF ISSUER:  
Genome Therapeutics Corp. ("Genome")

ITEM 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:  
100 Beaver Street  
Waltham, Massachusetts 02154

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ITEM 2(a). NAME OF PERSON FILING:

This Amendment to Schedule 13G is being filed on behalf of the following persons\* (the "Reporting Persons"):

- (i) Biotechnology Value Fund, L.P. ("BVF")
- (ii) Biotechnology Value Fund II, L.P. ("BVF2")
- (iii) BVF Investments, L.L.C. ("Investments")
- (iv) BVF Partners L.P. ("Partners")
- (v) BVF Inc. ("BVF Inc.")

\* Attached as Exhibit 1 is a copy of an agreement among the Reporting Persons filing (as specified hereinabove) that this Amendment to Schedule 13G is being filed on behalf of each of them.

ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE:

The principal business office of the Reporting Persons comprising the group filing this Amendment to Schedule 13G is located at 227 West Monroe Street, Suite 4800, Chicago, Illinois, 60606.

ITEM 2(c). CITIZENSHIP:

BVF: a Delaware limited partnership  
BVF2: a Delaware limited partnership  
Investments: a Delaware limited liability company  
Partners: a Delaware limited partnership  
BVF Inc.: a Delaware corporation

ITEM 2(d). TITLE OF CLASS OF SECURITIES:

Common Stock, \$0.10 par value.

ITEM 2(e). CUSIP NUMBER:

372430 10 8

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CUISE NO. 372430 10 8

13G

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PAGE 8 OF 9  
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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: ONE OF THE FOLLOWING

Not applicable as this Amendment to Schedule 13G is filed pursuant to Rule 13d 1(c).

ITEM 4. OWNERSHIP:

The information in items 1 and 5 through 11 on the cover pages (pp. 2-6) on this Amendment to Schedule 13G is hereby incorporated by reference.

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 Persons have ceased to be the beneficial owner of more than five percent of the class of securities check the following. |X|



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By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

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Mark N. Lampert  
President

BVF INVESTMETNS L.L.C.

By: BVF Partners L.P., its manager

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

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Mark N. Lampert  
President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

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Mark N. Lampert  
President

BVF INC.

By: /s/ MARK N. LAMPERT

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Mark N. Lampert  
President