Ardea Biosciences, Inc./DE Form SC 13D/A June 21, 2012

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment No. 4)

Ardea Biosciences, Inc. (Name of Issuer)

Common Stock (Title of Class of Securities)

> ____03969P107_____ (CUSIP Number)

David Goldman GAMCO Investors, Inc. One Corporate Center Rye, New York 10580-1435 (914) 921-5000

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

_____June 19, 2012_____ (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 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box .

1

- Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 Gabelli Funds, LLC
 I.D. No. 13-4044523
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS) (a)

(b)

3 Sec use only

- 4 Source of funds (SEE INSTRUCTIONS) None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e) X
- 6 Citizenship or place of organization New York

Number Of	: 7	Sole voting power
Shares		None (Item 5)
Beneficially	: 8	Shared voting power
Owned	:	None
By Each	: 9	Sole dispositive power
Reporting	· :	None (Item 5)
Person	:10	Shared dispositive power
With	:	None

11 Aggregate amount beneficially owned by each reporting person

None (Item 5)

- 12 Check box if the aggregate amount in row (11) excludes certain shares (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)

0.00%

14 Type of reporting person (SEE INSTRUCTIONS)

IA, CO

- 1
 Names of reporting persons

 I.R.S. identification nos. of above persons (entities only)

 GAMCO Asset Management, Inc.

 I.D. No. 13-4044521
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS) (a)

(b)

- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS) None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization New York

Number Of	: 7	Sole voting power
Shares		None (Item 5)
Beneficially	: 8	Shared voting power
Owned	•	None
By Each	: 9	Sole dispositive power
Reporting	•	None (Item 5)
Person	:10	Shared dispositive power
With	•	None

11 Aggregate amount beneficially owned by each reporting person

None (Item 5)

- 12 Check box if the aggregate amount in row (11) excludes certain shares (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)

0.00%

14 Type of reporting person (SEE INSTRUCTIONS)

IA, CO

- Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 Gabelli Securities, Inc.
 I.D. No. 13-3379374
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS) (a)

(b)

- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS) None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization Delaware

Number Of	: 7	Sole voting power
Shares	:	None (Item 5)
Beneficially	: 8	Shared voting power
Owned	· :	None
By Each	:9	Sole dispositive power
Reporting	:	None (Item 5)
Person	:10	Shared dispositive power
With	:	None

11 Aggregate amount beneficially owned by each reporting person

None (Item 5)

- 12 Check box if the aggregate amount in row (11) excludes certain shares (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)

0.00%

14 Type of reporting person (SEE INSTRUCTIONS)

HC, CO, IA

- 1Names of reporting personsI.R.S. identification nos. of above persons (entities only)MJG Associates, Inc.I.D. No. 06-1304269
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS) (a)

(b)

3 Sec use only

- 4 Source of funds (SEE INSTRUCTIONS) None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization Connecticut

Number Of	: 7	Sole voting power
Shares	:	None (Item 5)
Beneficially	: 8	Shared voting power
Owned	:	None
By Each	:9	Sole dispositive power
Reporting	· :	None (Item 5)
Person	:10	Shared dispositive power
With	:	None

11 Aggregate amount beneficially owned by each reporting person

None (Item 5)

- 12 Check box if the aggregate amount in row (11) excludes certain shares (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)

0.00%

14 Type of reporting person (SEE INSTRUCTIONS) CO

- Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 Gabelli Foundation, Inc.
 I.D. No. 94-2975159
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS) (a)

(b)

- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS) None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization NV

: 7	Sole voting power
· :	None (Item 5)
: 8	Shared voting power
:	None
: 9	Sole dispositive power
	None (Item 5)
:10	Shared dispositive power
:	None
	: : : : : : : : : : : : : : : : : : :

11 Aggregate amount beneficially owned by each reporting person

None (Item 5)

- 12 Check box if the aggregate amount in row (11) excludes certain shares (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)

0.00%

14 Type of reporting person (SEE INSTRUCTIONS) 00-Private Foundation

1	Names of reporting persons	
	I.R.S. identification nos. of above persons (entities only)	
	GGCP, Inc.	I.D.
	No. 13-3056041	
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2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS) (a)

(b)

3 Sec use only

- 4 Source of funds (SEE INSTRUCTIONS) None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization Wyoming

Number Of

Shares

Beneficially

Owned

By Each

Reporting

Person