

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6047(e), and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2010 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2010 or fiscal plan year beginning <u>01/01/2010</u> and ending <u>12/31/2010</u>	
A This return/report is for:	☐ a multiemployer plan; ☐ a multiple-employer plan; or ☒ a single-employer plan; ☐ a DFE (specify) ____
B This return/report is:	☐ the first return/report; ☐ the final return/report; ☐ an amended return/report; ☐ a short plan year return/report (less than 12 months).
C If the plan is a collectively-bargained plan, check here.	☐
D Check box if filing under:	☒ Form 5558; ☐ automatic extension; ☐ the DFVC program; ☐ special extension (enter description)

Part II	Basic Plan Information —enter all requested information				
1a Name of plan <u>MOMENTA PHARMACEUTICALS 401(K) PLAN</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1b Three-digit plan number (PN) ▶</td> <td style="width: 20%; text-align: center;"><u>001</u></td> </tr> <tr> <td colspan="2">1c Effective date of plan <u>10/15/2003</u></td> </tr> </table>	1b Three-digit plan number (PN) ▶	<u>001</u>	1c Effective date of plan <u>10/15/2003</u>	
1b Three-digit plan number (PN) ▶	<u>001</u>				
1c Effective date of plan <u>10/15/2003</u>					
2a Plan sponsor's name and address (employer, if for a single-employer plan) (Address should include room or suite no.) <u>MOMENTA PHARMACEUTICALS, INC.</u> <u>675 WEST KENDALL STREET</u> <u>CAMBRIDGE, MA 02142</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2b Employer Identification Number (EIN) <u>04-3561634</u></td> </tr> <tr> <td>2c Sponsor's telephone number <u>617-491-9700</u></td> </tr> <tr> <td>2d Business code (see instructions) <u>541700</u></td> </tr> </table>	2b Employer Identification Number (EIN) <u>04-3561634</u>	2c Sponsor's telephone number <u>617-491-9700</u>	2d Business code (see instructions) <u>541700</u>	
2b Employer Identification Number (EIN) <u>04-3561634</u>					
2c Sponsor's telephone number <u>617-491-9700</u>					
2d Business code (see instructions) <u>541700</u>					

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/17/2011	MICHAEL FLANAGAN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500.

Form 5500 (2010)
v.092307.1

3a Plan administrator's name and address (if same as plan sponsor, enter "Same") MOMENTA PHARMACEUTICALS, INC. 675 WEST KENDALL STREET CAMBRIDGE, MA 02142	3b Administrator's EIN 04-3561634 3c Administrator's telephone number 617-491-9700
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4 If the name and/or EIN of the plan sponsor has changed since the last return/report filed for this plan, enter the name, EIN and the plan number from the last return/report: a Sponsor's name	4b EIN 4c PN
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5 Total number of participants at the beginning of the plan year	5	176
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6 Number of participants as of the end of the plan year (welfare plans complete only lines 6a , 6b , 6c , and 6d).		
a Active participants.....	6a	171
b Retired or separated participants receiving benefits.....	6b	0
c Other retired or separated participants entitled to future benefits.....	6c	34
d Subtotal. Add lines 6a , 6b , and 6c	6d	205
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.....	6e	1
f Total. Add lines 6d and 6e	6f	206
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....	6g	192
h Number of participants that terminated employment during the plan year with accrued benefits that were less than 100% vested.....	6h	9

7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7	
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8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:
 2F 2G 2J 2K 2T 3D

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
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10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☐ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☐ A (Insurance Information) (4) ☒ C (Service Provider Information) (5) ☐ D (DFE/Participating Plan Information) (6) ☐ G (Financial Transaction Schedules)
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SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2010
		This Form is Open to Public Inspection.

For calendar plan year 2010 or fiscal plan year beginning 01/01/2010 and ending 12/31/2010

A Name of plan MOMENTA PHARMACEUTICALS 401(K) PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 MOMENTA PHARMACEUTICALS, INC.	D Employer Identification Number (EIN) 04-3561634

Part I

Service Provider Information (see instructions)

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1

Information on Persons Receiving Only Eligible Indirect Compensation

a

Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).....

☒ Yes

☐ No

b

If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b)	Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
FID.INV.INST.OPS.CO.	
04-2647786	

(b)	Enter name and EIN or address of person who provided you disclosure on eligible indirect compensation
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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

FIDELITY INVESTMENTS INSTITUTIONAL

04-2647786

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
64 37 65 60	RECORDKEEPER	1300	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3 If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
FIDELITY INVESTMENTS INSTITUTIONAL	60	0
(d) Enter name and EIN (address) of source of indirect compensation		
INVS DEVELOP MKTS A - INVESCO TRIMA	0.50%	
39-0281260		
(a) Enter service provider name as it appears on line 2		
FIDELITY INVESTMENTS INSTITUTIONAL	60	0
(d) Enter name and EIN (address) of source of indirect compensation		
THORNBURG INT VAL R4 - BOSTON FINAN	0.35%	
04-2526037		
(a) Enter service provider name as it appears on line 2		
FIDELITY INVESTMENTS INSTITUTIONAL	60	0
(d) Enter name and EIN (address) of source of indirect compensation		
TRP EQUITY INC ADV - T ROWE PRICE I	0.40%	
52-1184650		

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name: CATURANO AND COMPANY, INC.	b EIN: 04-2775195
c Position: ACCOUNTANT	
d Address: 80 CITY SQUARE BOSTON, MA 02129	e Telephone: 617-912-9001

Explanation: CATURANO & CO., INC ACQUIRED BY MCGLADREY & PULLEN, LLP

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN;
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN;
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110
		2010
		This Form is Open to Public Inspection

For calendar plan year 2010 or fiscal plan year beginning 01/01/2010 and ending 12/31/2010		
A Name of plan MOMENTA PHARMACEUTICALS 401(K) PLAN	B Three-digit plan number (PN) ►	001
C Plan sponsor's name as shown on line 2a of Form 5500 MOMENTA PHARMACEUTICALS, INC.	D Employer Identification Number (EIN) 04-3561634	

Part I	Asset and Liability Statement
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1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)		
(2) Participant contributions	1b(2)		
(3) Other	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	419926	596778
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans	1c(8)	57735	69470
(9) Value of interest in common/collective trusts	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)		
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)	6231414	8676012
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)		
(15) Other	1c(15)		

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	6709075	9342260

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	6709075	9342260
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	512033	
(B) Participants	2a(1)(B)	1514440	
(C) Others (including rollovers)	2a(1)(C)	51777	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		2078250
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	92	
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	2801	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		2893
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	121504	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		121504
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		

		(a) Amount	(b) Total
2b (5) Unrealized appreciation (depreciation) of assets: (A) Real estate.....	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		1062745
c Other income.....	2c		
d Total income. Add all income amounts in column (b) and enter total.....	2d		3265392

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	630592	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		630592
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions).....	2g		
h Interest expense.....	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)	1615	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		1615
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		632207

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		2633185
l Transfers of assets:			
(1) To this plan.....	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☐ Unqualified (2) ☐ Qualified (3) ☒ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)? ☒ Yes ☐ No

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: MCGLADREY & PULLEN, LLC

(2) EIN: 42-0714325

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

- 4** CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete 4j and 4l. MTIAs also do not complete 4l.

During the plan year:

	Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....		X	
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.).....		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.).....		X	
e Was this plan covered by a fidelity bond?.....	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.).....	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.).....		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?.....		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.).....		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.		X	

- 5a** Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?
If yes, enter the amount of any plan assets that reverted to the employer this year ☐ Yes ☒ No Amount:

- 5b** If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)

5b(2) EIN(s)

5b(3) PN(s)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under section 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2010 This Form is Open to Public Inspection.
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For calendar plan year 2010 or fiscal plan year beginning 01/01/2010 and ending 12/31/2010

A Name of plan <u>MOMENTA PHARMACEUTICALS 401(K) PLAN</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>MOMENTA PHARMACEUTICALS, INC.</u>	D Employer Identification Number (EIN) <u>04-3561634</u>

Part I	Distributions
---------------	----------------------

All references to distributions relate only to payments of benefits during the plan year.

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....	1	<u>0</u>
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): <u>04-6568107</u>		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year.....	3	

Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part)
----------------	--

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)?.....	☐ Yes	☐ No	☐ N/A
If the plan is a defined benefit plan, go to line 8.			
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____	If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year	6a		
b Enter the amount contributed by the employer to the plan for this plan year	6b		
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....	6c		
If you completed line 6c, skip lines 8 and 9.			
7 Will the minimum funding amount reported on line 6c be met by the funding deadline?	☐ Yes	☐ No	☐ N/A
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change?.....	☐ Yes	☐ No	☐ N/A

Part III	Amendments
-----------------	-------------------

9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box(es). If no, check the "No" box.....	☐ Increase	☐ Decrease	☐ Both	☐ No
--	-----------------------------------	-----------------------------------	-------------------------------	-----------------------------

Part IV	ESOPs (see instructions). If this is not a plan described under Section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
----------------	---

10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?.....	☐ Yes	☐ No
11 a Does the ESOP hold any preferred stock?	☐ Yes	☐ No
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)	☐ Yes	☐ No
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?	☐ Yes	☐ No

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500.

Schedule R (Form 5500) 2010
v.092308.1

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month Day Year

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete items 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents)

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify):

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month Day Year

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete items 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents)

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify):

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month Day Year

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete items 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents)

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify):

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month Day Year

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete items 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents)

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify):

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month Day Year

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete items 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents)

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify):

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month Day Year

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete items 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents)

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify):

- 14** Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year	14a	
b The plan year immediately preceding the current plan year	14b	
c The second preceding plan year	14c	

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year	15a	
b The corresponding number for the second preceding plan year	15b	

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year	16a	
b If item 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete items (a) through (c)

- a** Enter the percentage of plan assets held as:

Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%

- b** Provide the average duration of the combined investment-grade and high-yield debt:

☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

- c** What duration measure was used to calculate item 19(b)?

☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____

Momenta Pharmaceuticals 401(k) Plan

Financial Statements
and
Supplemental Schedule

Years Ended December 31, 2010 and 2009

Momenta Pharmaceuticals 401(k) Plan

FINANCIAL STATEMENTS
AND
SUPPLEMENTAL SCHEDULE
Years Ended December 31, 2010 and 2009

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INDEPENDENT AUDITOR'S REPORT

To the Plan Administrator
Momenta Pharmaceuticals 401(k) Plan
Cambridge, Massachusetts

We were engaged to audit the accompanying statement of net assets available for plan benefits and supplemental schedule of the Momenta Pharmaceuticals 401(k) Plan (the Plan) as of December 31, 2010, and the related statement of changes in net assets available for plan benefits for the year then ended. These financial statements and supplemental schedule are the responsibility of the Plan's management. The financial statements of the Plan as of December 31, 2009 and for the year then ended, were audited by Caturano and Company, Inc., independent accountants, certain of whose shareholders became partners of McGladrey & Pullen, LLP on July 20, 2010. Caturano and Company, Inc.'s report dated October 13, 2010, disclaimed an opinion on the 2009 financial statements for the same reason described in the following paragraph.

As permitted by 29 CFR 2520.103-8 of the United States Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 6, which was certified by Fidelity Management Trust Company, the trustee of the Plan, except for comparing the information with the related information included in the financial statements and the supplemental schedule. We have been informed by the Plan Administrator that the trustee holds the Plan's assets and executes transactions. The Plan Administrator has obtained a certification from the trustee regarding the completeness and accuracy of the information summarized in Note 6 that was provided to the Plan Administrator by the trustee as of and for the year ended December 31, 2010.

Because of the significance of the information that we did not audit, we are unable to, and do not, express an opinion on the accompanying 2010 financial statements and supplemental schedule taken as a whole. The form and content of the information included in the financial statements and supplemental schedule, other than that derived from the information certified by the trustee, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.

As described in Note 2, the Plan adopted Financial Accounting Standards Board Accounting Standards Update 2010-25, *Plan Accounting—Defined Contribution Pension Plans (Topic 962): Reporting Loans to Participants by Defined Contribution Pension Plans*, as of December 31, 2010, which clarified how loans to participants should be classified and measured by defined contribution pension plans. This Update was retrospectively applied to December 31, 2009.

McGladrey & Pullen, LLP

October 14, 2011
Boston, Massachusetts

Momenta Pharmaceuticals 401(k) Plan

Statements of Net Assets Available for Plan Benefits

December 31, 2010 and 2009

	<u>2010</u>	<u>2009</u>
		(As Revised)
ASSETS		
Investments, at fair value	\$ 9,272,791	\$ 6,651,340
Notes receivable from participants	69,470	57,735
Net assets available for plan benefits	<u>\$ 9,342,261</u>	<u>\$ 6,709,075</u>

The accompanying notes are an integral part of these financial statements.

Momenta Pharmaceuticals 401(k) Plan

Statements of Changes in Net Assets Available for Plan Benefits

Years Ended December 31, 2010 and 2009

	<u>2010</u>	<u>2009</u>
		(As Revised)
Additions to net assets attributed to:		
Investment income:		
Net appreciation in fair value of investments	\$ 1,062,746	\$ 1,350,879
Interest and dividends	121,596	93,660
Total investment income	<u>1,184,342</u>	<u>1,444,539</u>
Interest income on notes receivable from participants	<u>2,801</u>	<u>1,645</u>
Contributions:		
Participant	1,514,440	1,320,640
Employer	512,033	436,019
Rollover	51,777	104,476
	<u>2,078,250</u>	<u>1,861,135</u>
Total additions	<u>3,265,393</u>	<u>3,307,319</u>
Deductions from net assets attributed to:		
Benefits paid to participants	630,592	193,752
Administrative expenses	1,615	610
Total deductions	<u>632,207</u>	<u>194,362</u>
Net increase	2,633,186	3,112,957
Net assets available for plan benefits:		
Beginning of year	<u>6,709,075</u>	<u>3,596,118</u>
End of year	<u>\$ 9,342,261</u>	<u>\$ 6,709,075</u>

The accompanying notes are an integral part of these financial statements.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

1. DESCRIPTION OF THE PLAN

The following description of the (the Plan), of Momenta Pharmaceuticals, Inc. (the Company), provides only general information. Participants should refer to the plan agreement for a more complete description of the Plan's provisions.

General

The Plan is a defined contribution plan covering substantially all employees of the Company who have attained at least 21 years of age. Through October 31, 2010, a service requirement of 90 days was required for eligibility. Effective November 1, 2010, the Plan was amended to remove the service requirement from the eligibility requirements. The Plan was established by the Company on October 31, 2003 and is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA), as amended. The Plan was most recently amended and restated on November 1, 2010.

Contributions

Participants, who elect to defer, may contribute up to 60% of their annual wages, subject to statutory limitations.

The Company has the option of making discretionary matching contributions. For the years ended December 31, 2010 and 2009, the Company made a contribution of an amount equal to 50% of employee's authorized elective deferrals up to 6% of the employee's eligible compensation.

Rollovers

With the approval of the plan administrator, the Plan may receive any amounts received by an employee as a distribution from another qualified plan provided that the receipt of such amounts do not adversely affect the qualified tax status of the Plan. Participants are fully vested in these amounts.

Participant Accounts

Each participant has a separate individual investment account. Each participant's account is credited with the participant's contribution and the Company's matching contribution. Gains and losses on the account shall accrue to such account only. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account balance.

Vesting

Participants are fully and immediately vested in their voluntary contributions, rollover contributions, and the earnings and losses thereon. Company matching contributions and earnings thereon vest in accordance with the following schedule:

<u>Years of Service for Vesting</u>	<u>Vesting Percentage</u>
Less than 1	0 %
1	25 %
2	50 %
3	75 %
4	100 %

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

1. DESCRIPTION OF THE PLAN...continued

Investment Elections

Each participant shall direct the investment of his or her own individual account and may select from several mutual funds as well as a money market fund. Each participant has the ability to change his or her investment allocations at any time.

Notes Receivable from Participants

Participants may, upon written application, borrow any amount from \$1,000 up to a maximum of 50% of their total vested account balance or \$50,000 (less the highest outstanding balance on any other loan outstanding in the prior 12 months) as defined by the Plan. The loan repayment period is up to five years and may be extended to ten years for a loan to purchase a principal residence. All loans bear a reasonable rate of interest as determined by the Plan based on the prevailing interest rates charged by persons in the business of lending money for loans which would be made under similar circumstances.

Payment of Benefits

The Plan provides for distribution of the vested balance of a participant's account to a participant, spouse or designated beneficiary upon reaching the normal retirement date, 59½ years of age, disability or death. Distributions are made in the form of a lump sum. Upon termination of employment, the participant may elect to leave his or her account on deposit with the trustee of the Plan, unless the balance is less than \$5,000, in which case the amount is distributed out of the Plan.

In accordance with a uniform and nondiscriminatory policy adopted by the plan administrator, a participant may withdraw a portion of his or her vested balance to meet immediate and heavy financial needs, subject to certain limitations outlined in the Plan.

Forfeitures

Forfeitures represent the non-vested portion of terminated participants' account balances. These amounts can be used to reduce future employer contributions or to pay plan administrative expenses. During 2010 and 2009, forfeitures totaled \$16,377 and \$13,639, respectively. Forfeitures of \$0 and \$14,139 were used to fund employer matching contributions in 2010 and 2009, respectively. As of December 31, 2010 and 2009, unallocated forfeiture amounts available for future matching contributions were \$17,504 and \$1,127 respectively.

Administrative Expenses

The Plan Sponsor pays substantially all of the administrative costs for the Plan, except for administrative costs associated with participant loans.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting and Use of Estimates

The financial statements have been prepared in accordance with accounting standards set by the Financial Accounting Standards Board (FASB). The FASB sets generally accepted accounting principles (GAAP) to ensure net assets available for plan benefits and changes in net assets available for plan benefits are consistently reported. References to GAAP issued by the FASB in these footnotes are to the FASB Accounting Standards Codification (FASB ASC). The financial statements of the Plan are prepared on the accrual basis of accounting.

The preparation of financial statements in conformity with generally accepted accounting principles requires the plan administrator to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results may differ from those estimates.

Investment Valuation and Income Recognition

The Plan's investments are stated at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded when earned. Dividends are recorded on the ex-dividend date. In the statement of changes in net assets available for plan benefits, the Plan presents the net appreciation in the fair value of investments, which consists of the realized gains or losses and the unrealized appreciation (depreciation) on those investments.

Notes Receivable from Participants

Notes receivable from participants are measured at their unpaid principal balances plus any unpaid interest. Delinquent loans are treated as distributions based on the terms of the plan document.

In September 2010, FASB issued ASU 2010-25, *Plan Accounting—Defined Contribution Pension Plans (Topic 962): Reporting Loans to Participants by Defined Contribution Pension Plans*, which provides guidance on how loans to participants should be classified and measured by defined contribution pension plans. This amendment requires that participant loans be classified as notes receivable from participants, which are segregated from plan investments and measured at their unpaid principal balance plus any accrued but unpaid interest. This amendment was effective for periods ending after December 15, 2010, with early adoption permitted. This amendment requires retrospective application to all periods presented. This amendment was adopted for the year ended December 31, 2010, and retrospectively applied to December 31, 2009. Prior year amounts and disclosures have been revised to reflect the retrospective application of adopting this new amendment. The adoption resulted in a reclassification as of December 31, 2010 and 2009 of \$69,470 and \$57,735, respectively, from investments in loans to participants to notes receivable from participants. There was no impact to the net assets available for plan benefits as of December 31, 2010 and 2009, as a result of the adoption. This also resulted in a reclassification for the years ended December 31, 2010 and 2009 of \$2,801 and \$1,645, respectively, from additions to net assets attributed to investment income to interest income on notes receivable from participants.

Payment of Benefits

Benefits are recorded when paid.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES...continued

Fair Value Measurements

The Plan follows guidance within FASB ASC 820 – *Fair Value Measurements and Disclosures* (FASB ASC 820), which defines fair value, and establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements).

The three levels of the fair value hierarchy are described below:

Level 1 – Inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date.

Level 2 – Valuations based on quoted prices in markets that are not active or for which all significant inputs are observable, either directly or indirectly.

Level 3 – Prices or valuations that require inputs that are both significant to the fair value measurement and unobservable.

To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Plan in determining fair value is greatest for instruments categorized in Level 3. A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.

Fair value is a market-based measure considered from the perspective of a market participant rather than an entity-specific measure. Therefore, even when market assumptions are not readily available, the Plan's own assumptions are set to reflect those that market participants would use in pricing the asset or liability at the measurement date. The Plan uses prices and inputs that are current as of the measurement date, including during periods of market dislocation. In periods of market dislocation, the observability of prices and inputs may be reduced for many instruments. This condition could cause an instrument to be reclassified from Level 1 to Level 2 or Level 2 to Level 3.

Guidance under these fair value standards also requires disclosures of the breakdown of debt and equity investments by major category based on the nature and risks of the investments. The Plan does not have any non-financial assets or liabilities which are required to be at fair value.

Valuation Techniques

There have been no changes in the valuation techniques used during the current period.

Mutual Funds and Money Market Fund

Fair value of shares of mutual funds and the money market fund represent the net asset value of such shares as of the close of business at the end of the period based on the quoted active market prices of the underlying investments. These securities are categorized in Level 1 as they are actively traded and no valuation adjustments have been applied.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES...continued

Recent Accounting Pronouncements

In January 2010, FASB issued Accounting Standards Update (ASU) No. 2010-06, *Fair Value Measurements and Disclosures – Improving Disclosures about Fair Value Measurements* (ASU 2010-06), which requires new disclosures about transfers of financial assets and liabilities between levels 1 and 2. This amendment also clarifies that fair value measurements disclosures are required for each class of financial assets and liabilities and disclosure about inputs and valuation techniques are required for both Level 2 and Level 3 measurements. It further clarifies that the reconciliation of Level 3 measurements should separately present purchases, sales, issuances, and settlements instead of netting these changes. With respect to matters other than reconciliation of Level 3 measurements, the amendment was effective for periods beginning on or after December 15, 2009, and adopted by the Plan on January 1, 2010. The guidance related to reconciliation of Level 3 measurements is effective for periods beginning on or after December 15, 2010, and had not yet been adopted. Management is currently evaluating the impact of the guidance related to the reconciliation of Level 3 measurements on the disclosures.

Future Adoption of Accounting Pronouncements

In May 2011, the FASB issued ASU 2011-4, *Amendments to Achieve Common Fair Value Measurement*. ASU 2011-4 is intended to result in common fair value measurement and disclosure requirements between United States Generally Accepted Accounting Principles (U.S. GAAP) and International Financial Reporting Standards (IFRS). In general, ASU 2011-4 is not intended to result in significant changes in the application of ASC Topic 820. Instead, ASU 2011-4 clarifies the intent of previously existing standards and changes certain requirements for fair value measurement or for disclosing information about fair value measurements. ASU 2011-4 is effective for annual periods beginning after December 15, 2011. The impact to the financial statements is currently being evaluated by the Plan.

3. INVESTMENTS

The following table presents the fair value of plan investments at December 31, 2010 and 2009. Investments that represent five percent or more of the Plan's net assets are identified separately.

	<u>2010</u>	<u>2009</u>
Investments at fair value as determined by quoted market price:		
Mutual funds:		
Fidelity Diversified International Fund	\$ 718,717	\$ 636,900
Fidelity Mid Cap Stock Fund	623,556	307,769
Fidelity Freedom 2030 Fund	553,567	356,199
Fidelity Contrafund	546,457	418,532
Fidelity Intermediate Bond Fund	546,449	286,927
Other	<u>5,687,267</u>	<u>4,225,087</u>
	<u>8,676,013</u>	<u>6,231,414</u>
 Fidelity Money Market Trust Retirement Fund	 <u>596,778</u>	 <u>419,926</u>
 Total investments at fair value	 <u>\$ 9,272,791</u>	 <u>\$ 6,651,340</u>

During the years ended December 31, 2010 and 2009, the Plan's investments in mutual funds appreciated in fair value (including gains and losses on investments bought and sold, as well as held during the year) by \$1,062,746 and \$1,350,879, respectively.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

4. FAIR VALUE MEASUREMENTS

Assets measured at fair value on a recurring basis as of December 31, 2010 and 2009 are as follows:

	Total Fair Value	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
December 31, 2010:				
Investments:				
Mutual funds:				
Mid/Large cap funds	\$ 6,383,104	\$ 6,383,104	\$ -	\$ -
International funds	1,004,015	1,004,015	-	-
Fixed income funds	991,544	991,544	-	-
Small cap funds	<u>297,350</u>	<u>297,350</u>	-	-
Total mutual funds	8,676,013	8,676,013	-	-
Money market funds	<u>596,778</u>	<u>596,778</u>	-	-
	<u>\$ 9,272,791</u>	<u>\$ 9,272,791</u>	<u>\$ -</u>	<u>\$ -</u>
December 31, 2009:				
Investments:				
Mutual funds:				
Mid/Large cap funds	\$ 4,484,792	\$ 4,484,792	\$ -	\$ -
International funds	844,621	844,621	-	-
Fixed income funds	708,397	708,397	-	-
Small cap funds	<u>193,604</u>	<u>193,604</u>	-	-
Total mutual funds	6,231,414	6,231,414	-	-
Money market funds	<u>419,926</u>	<u>419,926</u>	-	-
	<u>\$ 6,651,340</u>	<u>\$ 6,651,340</u>	<u>\$ -</u>	<u>\$ -</u>

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

5. NOTES RECEIVABLE FROM PARTICIPANTS

The Plan permits its participants to obtain loans against their account balance. As of December 31, 2010 and 2009, total loans outstanding were \$69,470 and \$57,735, respectively. During the years ended December 31, 2010 and 2009, interest earned on such loans was \$2,801 and \$1,645, respectively. Loans to participants are collateralized by the respective participant's remaining account balance. Also, certain restrictions apply to participant loans, as defined in the plan document.

6. INFORMATION PREPARED AND CERTIFIED BY PLAN'S TRUSTEE

The following is a summary of the Plan's asset information as of December 31, 2010 and 2009, and for the year ended December 31, 2010, included throughout the Plan's financial statements and supplemental schedule, that was prepared by or derived from information provided by Fidelity Management Trust Company, the trustee, and furnished to the plan administrator. The plan administrator has obtained certifications from the trustee that information provided to the plan administrator by the trustee related to the following assets is complete and accurate. Accordingly, as permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA, the plan administrator instructed the Plan's independent auditors not to perform any auditing procedures with respect to information related to the following assets:

	<u>2010</u>	<u>2009</u>
Investments, at fair value	<u>\$ 9,272,791</u>	<u>\$ 6,651,340</u>
Notes receivable from participants	<u>\$ 69,470</u>	<u>\$ 57,735</u>

For the years ended December 31, 2010 and 2009, Fidelity Management Trust Company certifies to the completeness and accuracy of \$1,062,746 and \$1,350,879, respectively, of net appreciation in fair value of investments and \$124,397 and \$95,305, respectively, of interest and dividends related to the aforementioned assets.

7. TAX STATUS

The Plan obtained its latest determination letter on October 9, 2003 in which the Internal Revenue Service stated that the plan, as then designed, was in compliance with the applicable requirements of the Internal Revenue Code. The Plan has been amended since receiving the determination letter. However, the plan administrator and the Plan's tax counsel believe that the Plan is currently designed and being operated in compliance with the applicable requirements of the Internal Revenue Code. Therefore, no provision for income taxes has been included in the Plan's financial statements.

Accounting principles generally accepted in the United States of America require plan management to evaluate tax positions taken by the Plan. Management evaluated the Plan's tax positions and concluded that the Plan had maintained its tax exempt status and had taken no uncertain tax positions that require revenue recognition or disclosure in the financial statements. Therefore, no provision or liability for income taxes has been included in the financial statements. With few exceptions, the Plan is no longer subject to income tax examinations by the U.S. federal, state, or local tax authorities for years before 2007.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

8. PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the plan to discontinue its contributions at any time and terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants will become 100% vested in their accounts.

9. PARTY-IN-INTEREST TRANSACTIONS

The Plan's investments in shares of mutual funds and a money market fund are managed by Fidelity Management Trust Company, the trustee of the Plan, and therefore, these transactions qualify as party-in-interest transactions as the term is defined in Section 3(14) of ERISA. The Plan also issues notes receivables from participants, which are secured by the balances in the participants' accounts, all of which represent party-in-interest transactions.

10. RISKS AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of net assets available for plan benefits.

11. SUBSEQUENT EVENTS

The Company has evaluated subsequent events through October 14, 2011, the date which the financial statements were available to be issued.

SUPPLEMENTAL SCHEDULE

Momenta Pharmaceuticals 401(k) Plan

Employer Identification Number 04-3561634

Plan Number 001

Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year)

December 31, 2010

(a)	(b)	(c)					(d)	(e)
		Description of Investment						
	Identity of Issue, Borrower, Lessor or Similar Party	Type of Investment	Maturity Date	Rate of Interest	Collateral	Par or Maturity Value	Cost	Current Value
*	Fidelity Diversified International Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	\$ 718,717
*	Fidelity Mid Cap Stock Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	623,556
*	Fidelity Freedom 2030 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	553,567
*	Fidelity Contrafund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	546,457
*	Fidelity Intermediate Bond Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	546,449
*	Spartan Total Market Index Fund - Investor Class	Mutual Fund	n/a	n/a	n/a	n/a	n/a	418,690
*	Fidelity Investment Grade Bond Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	395,243
*	Fidelity Blue Chip Growth Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	379,587
*	Fidelity Freedom 2035 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	362,289
*	Fidelity Growth Company Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	358,245
*	Fidelity Freedom 2025 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	289,407
*	Fidelity Value Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	287,602
*	Thornburg International Value Fund Class R4	Mutual Fund	n/a	n/a	n/a	n/a	n/a	284,177
*	Fidelity Low Priced Stock Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	275,726
*	Fidelity Export & Multinational Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	248,565
*	Fidelity Puritan Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	240,691
*	Fidelity Freedom 2040 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	230,864
*	Spartan Extended Market Index Fund - Investor Class	Mutual Fund	n/a	n/a	n/a	n/a	n/a	187,363
*	Fidelity OTC Portfolio Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	174,759
*	Fidelity Fifty Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	174,739
*	Fidelity Freedom 2020 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	171,760
*	Fidelity Value Strategies Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	161,270
*	Fidelity Small Cap Retirement Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	156,891
*	Fidelity Dividend Growth Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	150,691
*	Fidelity Small Cap Value Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	140,459
*	Fidelity Freedom 2045 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	117,206
*	Fidelity Real Estate Investment Portfolio Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	99,640
*	T. Rowe Price Equity Income Fund Advisor Class	Mutual Fund	n/a	n/a	n/a	n/a	n/a	76,486
*	Fidelity Equity-Income Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	69,412
*	Fidelity Large Cap Stock Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	44,726
*	Fidelity Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	42,805
*	Fidelity Freedom 2000 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	35,656
*	Fidelity Freedom 2015 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	35,360
*	Fidelity Freedom 2010 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	33,716
*	Fidelity Freedom 2050 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	27,925
*	Fidelity Freedom Income Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	13,183
*	Invesco Developing Markets CL A	Mutual Fund	n/a	n/a	n/a	n/a	n/a	1,122
*	Fidelity Freedom 2005 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	1,012
*	Fidelity Money Market Trust Retirement Fund	Money Market	n/a	n/a	n/a	n/a	n/a	596,778
*	Participant Loans	Loans to Participants	varies	4%	n/a	varies	-	69,470
								\$ 9,342,261

* Represents a party-in-interest to the Plan

Momenta Pharmaceuticals 401(k) Plan

Financial Statements
and
Supplemental Schedule

Years Ended December 31, 2010 and 2009

Momenta Pharmaceuticals 401(k) Plan

FINANCIAL STATEMENTS
AND
SUPPLEMENTAL SCHEDULE
Years Ended December 31, 2010 and 2009

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INDEPENDENT AUDITOR'S REPORT

To the Plan Administrator
Momenta Pharmaceuticals 401(k) Plan
Cambridge, Massachusetts

We were engaged to audit the accompanying statement of net assets available for plan benefits and supplemental schedule of the Momenta Pharmaceuticals 401(k) Plan (the Plan) as of December 31, 2010, and the related statement of changes in net assets available for plan benefits for the year then ended. These financial statements and supplemental schedule are the responsibility of the Plan's management. The financial statements of the Plan as of December 31, 2009 and for the year then ended, were audited by Caturano and Company, Inc., independent accountants, certain of whose shareholders became partners of McGladrey & Pullen, LLP on July 20, 2010. Caturano and Company, Inc.'s report dated October 13, 2010, disclaimed an opinion on the 2009 financial statements for the same reason described in the following paragraph.

As permitted by 29 CFR 2520.103-8 of the United States Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 6, which was certified by Fidelity Management Trust Company, the trustee of the Plan, except for comparing the information with the related information included in the financial statements and the supplemental schedule. We have been informed by the Plan Administrator that the trustee holds the Plan's assets and executes transactions. The Plan Administrator has obtained a certification from the trustee regarding the completeness and accuracy of the information summarized in Note 6 that was provided to the Plan Administrator by the trustee as of and for the year ended December 31, 2010.

Because of the significance of the information that we did not audit, we are unable to, and do not, express an opinion on the accompanying 2010 financial statements and supplemental schedule taken as a whole. The form and content of the information included in the financial statements and supplemental schedule, other than that derived from the information certified by the trustee, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.

As described in Note 2, the Plan adopted Financial Accounting Standards Board Accounting Standards Update 2010-25, *Plan Accounting—Defined Contribution Pension Plans (Topic 962): Reporting Loans to Participants by Defined Contribution Pension Plans*, as of December 31, 2010, which clarified how loans to participants should be classified and measured by defined contribution pension plans. This Update was retrospectively applied to December 31, 2009.

McGladrey & Pullen, LLP

October 14, 2011
Boston, Massachusetts

Momenta Pharmaceuticals 401(k) Plan

Statements of Net Assets Available for Plan Benefits

December 31, 2010 and 2009

	<u>2010</u>	<u>2009</u>
		(As Revised)
ASSETS		
Investments, at fair value	\$ 9,272,791	\$ 6,651,340
Notes receivable from participants	69,470	57,735
Net assets available for plan benefits	<u>\$ 9,342,261</u>	<u>\$ 6,709,075</u>

The accompanying notes are an integral part of these financial statements.

Momenta Pharmaceuticals 401(k) Plan

Statements of Changes in Net Assets Available for Plan Benefits

Years Ended December 31, 2010 and 2009

	<u>2010</u>	<u>2009</u>
		(As Revised)
Additions to net assets attributed to:		
Investment income:		
Net appreciation in fair value of investments	\$ 1,062,746	\$ 1,350,879
Interest and dividends	<u>121,596</u>	<u>93,660</u>
Total investment income	<u>1,184,342</u>	<u>1,444,539</u>
Interest income on notes receivable from participants	<u>2,801</u>	<u>1,645</u>
Contributions:		
Participant	1,514,440	1,320,640
Employer	512,033	436,019
Rollover	<u>51,777</u>	<u>104,476</u>
	<u>2,078,250</u>	<u>1,861,135</u>
Total additions	<u>3,265,393</u>	<u>3,307,319</u>
Deductions from net assets attributed to:		
Benefits paid to participants	630,592	193,752
Administrative expenses	<u>1,615</u>	<u>610</u>
Total deductions	<u>632,207</u>	<u>194,362</u>
Net increase	2,633,186	3,112,957
Net assets available for plan benefits:		
Beginning of year	<u>6,709,075</u>	<u>3,596,118</u>
End of year	<u>\$ 9,342,261</u>	<u>\$ 6,709,075</u>

The accompanying notes are an integral part of these financial statements.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

1. DESCRIPTION OF THE PLAN

The following description of the (the Plan), of Momenta Pharmaceuticals, Inc. (the Company), provides only general information. Participants should refer to the plan agreement for a more complete description of the Plan's provisions.

General

The Plan is a defined contribution plan covering substantially all employees of the Company who have attained at least 21 years of age. Through October 31, 2010, a service requirement of 90 days was required for eligibility. Effective November 1, 2010, the Plan was amended to remove the service requirement from the eligibility requirements. The Plan was established by the Company on October 31, 2003 and is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA), as amended. The Plan was most recently amended and restated on November 1, 2010.

Contributions

Participants, who elect to defer, may contribute up to 60% of their annual wages, subject to statutory limitations.

The Company has the option of making discretionary matching contributions. For the years ended December 31, 2010 and 2009, the Company made a contribution of an amount equal to 50% of employee's authorized elective deferrals up to 6% of the employee's eligible compensation.

Rollovers

With the approval of the plan administrator, the Plan may receive any amounts received by an employee as a distribution from another qualified plan provided that the receipt of such amounts do not adversely affect the qualified tax status of the Plan. Participants are fully vested in these amounts.

Participant Accounts

Each participant has a separate individual investment account. Each participant's account is credited with the participant's contribution and the Company's matching contribution. Gains and losses on the account shall accrue to such account only. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account balance.

Vesting

Participants are fully and immediately vested in their voluntary contributions, rollover contributions, and the earnings and losses thereon. Company matching contributions and earnings thereon vest in accordance with the following schedule:

<u>Years of Service for Vesting</u>	<u>Vesting Percentage</u>
Less than 1	0 %
1	25 %
2	50 %
3	75 %
4	100 %

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

1. DESCRIPTION OF THE PLAN...continued

Investment Elections

Each participant shall direct the investment of his or her own individual account and may select from several mutual funds as well as a money market fund. Each participant has the ability to change his or her investment allocations at any time.

Notes Receivable from Participants

Participants may, upon written application, borrow any amount from \$1,000 up to a maximum of 50% of their total vested account balance or \$50,000 (less the highest outstanding balance on any other loan outstanding in the prior 12 months) as defined by the Plan. The loan repayment period is up to five years and may be extended to ten years for a loan to purchase a principal residence. All loans bear a reasonable rate of interest as determined by the Plan based on the prevailing interest rates charged by persons in the business of lending money for loans which would be made under similar circumstances.

Payment of Benefits

The Plan provides for distribution of the vested balance of a participant's account to a participant, spouse or designated beneficiary upon reaching the normal retirement date, 59½ years of age, disability or death. Distributions are made in the form of a lump sum. Upon termination of employment, the participant may elect to leave his or her account on deposit with the trustee of the Plan, unless the balance is less than \$5,000, in which case the amount is distributed out of the Plan.

In accordance with a uniform and nondiscriminatory policy adopted by the plan administrator, a participant may withdraw a portion of his or her vested balance to meet immediate and heavy financial needs, subject to certain limitations outlined in the Plan.

Forfeitures

Forfeitures represent the non-vested portion of terminated participants' account balances. These amounts can be used to reduce future employer contributions or to pay plan administrative expenses. During 2010 and 2009, forfeitures totaled \$16,377 and \$13,639, respectively. Forfeitures of \$0 and \$14,139 were used to fund employer matching contributions in 2010 and 2009, respectively. As of December 31, 2010 and 2009, unallocated forfeiture amounts available for future matching contributions were \$17,504 and \$1,127 respectively.

Administrative Expenses

The Plan Sponsor pays substantially all of the administrative costs for the Plan, except for administrative costs associated with participant loans.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting and Use of Estimates

The financial statements have been prepared in accordance with accounting standards set by the Financial Accounting Standards Board (FASB). The FASB sets generally accepted accounting principles (GAAP) to ensure net assets available for plan benefits and changes in net assets available for plan benefits are consistently reported. References to GAAP issued by the FASB in these footnotes are to the FASB Accounting Standards Codification (FASB ASC). The financial statements of the Plan are prepared on the accrual basis of accounting.

The preparation of financial statements in conformity with generally accepted accounting principles requires the plan administrator to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results may differ from those estimates.

Investment Valuation and Income Recognition

The Plan's investments are stated at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded when earned. Dividends are recorded on the ex-dividend date. In the statement of changes in net assets available for plan benefits, the Plan presents the net appreciation in the fair value of investments, which consists of the realized gains or losses and the unrealized appreciation (depreciation) on those investments.

Notes Receivable from Participants

Notes receivable from participants are measured at their unpaid principal balances plus any unpaid interest. Delinquent loans are treated as distributions based on the terms of the plan document.

In September 2010, FASB issued ASU 2010-25, *Plan Accounting—Defined Contribution Pension Plans (Topic 962): Reporting Loans to Participants by Defined Contribution Pension Plans*, which provides guidance on how loans to participants should be classified and measured by defined contribution pension plans. This amendment requires that participant loans be classified as notes receivable from participants, which are segregated from plan investments and measured at their unpaid principal balance plus any accrued but unpaid interest. This amendment was effective for periods ending after December 15, 2010, with early adoption permitted. This amendment requires retrospective application to all periods presented. This amendment was adopted for the year ended December 31, 2010, and retrospectively applied to December 31, 2009. Prior year amounts and disclosures have been revised to reflect the retrospective application of adopting this new amendment. The adoption resulted in a reclassification as of December 31, 2010 and 2009 of \$69,470 and \$57,735, respectively, from investments in loans to participants to notes receivable from participants. There was no impact to the net assets available for plan benefits as of December 31, 2010 and 2009, as a result of the adoption. This also resulted in a reclassification for the years ended December 31, 2010 and 2009 of \$2,801 and \$1,645, respectively, from additions to net assets attributed to investment income to interest income on notes receivable from participants.

Payment of Benefits

Benefits are recorded when paid.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES...continued

Fair Value Measurements

The Plan follows guidance within FASB ASC 820 – *Fair Value Measurements and Disclosures* (FASB ASC 820), which defines fair value, and establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements).

The three levels of the fair value hierarchy are described below:

Level 1 – Inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date.

Level 2 – Valuations based on quoted prices in markets that are not active or for which all significant inputs are observable, either directly or indirectly.

Level 3 – Prices or valuations that require inputs that are both significant to the fair value measurement and unobservable.

To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Plan in determining fair value is greatest for instruments categorized in Level 3. A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.

Fair value is a market-based measure considered from the perspective of a market participant rather than an entity-specific measure. Therefore, even when market assumptions are not readily available, the Plan's own assumptions are set to reflect those that market participants would use in pricing the asset or liability at the measurement date. The Plan uses prices and inputs that are current as of the measurement date, including during periods of market dislocation. In periods of market dislocation, the observability of prices and inputs may be reduced for many instruments. This condition could cause an instrument to be reclassified from Level 1 to Level 2 or Level 2 to Level 3.

Guidance under these fair value standards also requires disclosures of the breakdown of debt and equity investments by major category based on the nature and risks of the investments. The Plan does not have any non-financial assets or liabilities which are required to be at fair value.

Valuation Techniques

There have been no changes in the valuation techniques used during the current period.

Mutual Funds and Money Market Fund

Fair value of shares of mutual funds and the money market fund represent the net asset value of such shares as of the close of business at the end of the period based on the quoted active market prices of the underlying investments. These securities are categorized in Level 1 as they are actively traded and no valuation adjustments have been applied.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES...continued

Recent Accounting Pronouncements

In January 2010, FASB issued Accounting Standards Update (ASU) No. 2010-06, *Fair Value Measurements and Disclosures – Improving Disclosures about Fair Value Measurements* (ASU 2010-06), which requires new disclosures about transfers of financial assets and liabilities between levels 1 and 2. This amendment also clarifies that fair value measurements disclosures are required for each class of financial assets and liabilities and disclosure about inputs and valuation techniques are required for both Level 2 and Level 3 measurements. It further clarifies that the reconciliation of Level 3 measurements should separately present purchases, sales, issuances, and settlements instead of netting these changes. With respect to matters other than reconciliation of Level 3 measurements, the amendment was effective for periods beginning on or after December 15, 2009, and adopted by the Plan on January 1, 2010. The guidance related to reconciliation of Level 3 measurements is effective for periods beginning on or after December 15, 2010, and had not yet been adopted. Management is currently evaluating the impact of the guidance related to the reconciliation of Level 3 measurements on the disclosures.

Future Adoption of Accounting Pronouncements

In May 2011, the FASB issued ASU 2011-4, *Amendments to Achieve Common Fair Value Measurement*. ASU 2011-4 is intended to result in common fair value measurement and disclosure requirements between United States Generally Accepted Accounting Principles (U.S. GAAP) and International Financial Reporting Standards (IFRS). In general, ASU 2011-4 is not intended to result in significant changes in the application of ASC Topic 820. Instead, ASU 2011-4 clarifies the intent of previously existing standards and changes certain requirements for fair value measurement or for disclosing information about fair value measurements. ASU 2011-4 is effective for annual periods beginning after December 15, 2011. The impact to the financial statements is currently being evaluated by the Plan.

3. INVESTMENTS

The following table presents the fair value of plan investments at December 31, 2010 and 2009. Investments that represent five percent or more of the Plan's net assets are identified separately.

	<u>2010</u>	<u>2009</u>
Investments at fair value as determined by quoted market price:		
Mutual funds:		
Fidelity Diversified International Fund	\$ 718,717	\$ 636,900
Fidelity Mid Cap Stock Fund	623,556	307,769
Fidelity Freedom 2030 Fund	553,567	356,199
Fidelity Contrafund	546,457	418,532
Fidelity Intermediate Bond Fund	546,449	286,927
Other	<u>5,687,267</u>	<u>4,225,087</u>
	<u>8,676,013</u>	<u>6,231,414</u>
 Fidelity Money Market Trust Retirement Fund	 <u>596,778</u>	 <u>419,926</u>
 Total investments at fair value	 <u>\$ 9,272,791</u>	 <u>\$ 6,651,340</u>

During the years ended December 31, 2010 and 2009, the Plan's investments in mutual funds appreciated in fair value (including gains and losses on investments bought and sold, as well as held during the year) by \$1,062,746 and \$1,350,879, respectively.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

4. FAIR VALUE MEASUREMENTS

Assets measured at fair value on a recurring basis as of December 31, 2010 and 2009 are as follows:

	Total Fair Value	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
December 31, 2010:				
Investments:				
Mutual funds:				
Mid/Large cap funds	\$ 6,383,104	\$ 6,383,104	\$ -	\$ -
International funds	1,004,015	1,004,015	-	-
Fixed income funds	991,544	991,544	-	-
Small cap funds	<u>297,350</u>	<u>297,350</u>	-	-
Total mutual funds	8,676,013	8,676,013	-	-
Money market funds	<u>596,778</u>	<u>596,778</u>	-	-
	<u>\$ 9,272,791</u>	<u>\$ 9,272,791</u>	<u>\$ -</u>	<u>\$ -</u>
December 31, 2009:				
Investments:				
Mutual funds:				
Mid/Large cap funds	\$ 4,484,792	\$ 4,484,792	\$ -	\$ -
International funds	844,621	844,621	-	-
Fixed income funds	708,397	708,397	-	-
Small cap funds	<u>193,604</u>	<u>193,604</u>	-	-
Total mutual funds	6,231,414	6,231,414	-	-
Money market funds	<u>419,926</u>	<u>419,926</u>	-	-
	<u>\$ 6,651,340</u>	<u>\$ 6,651,340</u>	<u>\$ -</u>	<u>\$ -</u>

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

5. NOTES RECEIVABLE FROM PARTICIPANTS

The Plan permits its participants to obtain loans against their account balance. As of December 31, 2010 and 2009, total loans outstanding were \$69,470 and \$57,735, respectively. During the years ended December 31, 2010 and 2009, interest earned on such loans was \$2,801 and \$1,645, respectively. Loans to participants are collateralized by the respective participant's remaining account balance. Also, certain restrictions apply to participant loans, as defined in the plan document.

6. INFORMATION PREPARED AND CERTIFIED BY PLAN'S TRUSTEE

The following is a summary of the Plan's asset information as of December 31, 2010 and 2009, and for the year ended December 31, 2010, included throughout the Plan's financial statements and supplemental schedule, that was prepared by or derived from information provided by Fidelity Management Trust Company, the trustee, and furnished to the plan administrator. The plan administrator has obtained certifications from the trustee that information provided to the plan administrator by the trustee related to the following assets is complete and accurate. Accordingly, as permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA, the plan administrator instructed the Plan's independent auditors not to perform any auditing procedures with respect to information related to the following assets:

	<u>2010</u>	<u>2009</u>
Investments, at fair value	<u>\$ 9,272,791</u>	<u>\$ 6,651,340</u>
Notes receivable from participants	<u>\$ 69,470</u>	<u>\$ 57,735</u>

For the years ended December 31, 2010 and 2009, Fidelity Management Trust Company certifies to the completeness and accuracy of \$1,062,746 and \$1,350,879, respectively, of net appreciation in fair value of investments and \$124,397 and \$95,305, respectively, of interest and dividends related to the aforementioned assets.

7. TAX STATUS

The Plan obtained its latest determination letter on October 9, 2003 in which the Internal Revenue Service stated that the plan, as then designed, was in compliance with the applicable requirements of the Internal Revenue Code. The Plan has been amended since receiving the determination letter. However, the plan administrator and the Plan's tax counsel believe that the Plan is currently designed and being operated in compliance with the applicable requirements of the Internal Revenue Code. Therefore, no provision for income taxes has been included in the Plan's financial statements.

Accounting principles generally accepted in the United States of America require plan management to evaluate tax positions taken by the Plan. Management evaluated the Plan's tax positions and concluded that the Plan had maintained its tax exempt status and had taken no uncertain tax positions that require revenue recognition or disclosure in the financial statements. Therefore, no provision or liability for income taxes has been included in the financial statements. With few exceptions, the Plan is no longer subject to income tax examinations by the U.S. federal, state, or local tax authorities for years before 2007.

Momenta Pharmaceuticals 401(k) Plan

Notes to Financial Statements

Years Ended December 31, 2010 and 2009

8. PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the plan to discontinue its contributions at any time and terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants will become 100% vested in their accounts.

9. PARTY-IN-INTEREST TRANSACTIONS

The Plan's investments in shares of mutual funds and a money market fund are managed by Fidelity Management Trust Company, the trustee of the Plan, and therefore, these transactions qualify as party-in-interest transactions as the term is defined in Section 3(14) of ERISA. The Plan also issues notes receivables from participants, which are secured by the balances in the participants' accounts, all of which represent party-in-interest transactions.

10. RISKS AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of net assets available for plan benefits.

11. SUBSEQUENT EVENTS

The Company has evaluated subsequent events through October 14, 2011, the date which the financial statements were available to be issued.

SUPPLEMENTAL SCHEDULE

Momenta Pharmaceuticals 401(k) Plan

Employer Identification Number 04-3561634

Plan Number 001

Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year)

December 31, 2010

(a)	(b)	(c)					(d)	(e)
		Description of Investment						
	Identity of Issue, Borrower, Lessor or Similar Party	Type of Investment	Maturity Date	Rate of Interest	Collateral	Par or Maturity Value	Cost	Current Value
*	Fidelity Diversified International Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	\$ 718,717
*	Fidelity Mid Cap Stock Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	623,556
*	Fidelity Freedom 2030 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	553,567
*	Fidelity Contrafund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	546,457
*	Fidelity Intermediate Bond Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	546,449
*	Spartan Total Market Index Fund - Investor Class	Mutual Fund	n/a	n/a	n/a	n/a	n/a	418,690
*	Fidelity Investment Grade Bond Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	395,243
*	Fidelity Blue Chip Growth Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	379,587
*	Fidelity Freedom 2035 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	362,289
*	Fidelity Growth Company Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	358,245
*	Fidelity Freedom 2025 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	289,407
*	Fidelity Value Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	287,602
*	Thornburg International Value Fund Class R4	Mutual Fund	n/a	n/a	n/a	n/a	n/a	284,177
*	Fidelity Low Priced Stock Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	275,726
*	Fidelity Export & Multinational Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	248,565
*	Fidelity Puritan Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	240,691
*	Fidelity Freedom 2040 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	230,864
*	Spartan Extended Market Index Fund - Investor Class	Mutual Fund	n/a	n/a	n/a	n/a	n/a	187,363
*	Fidelity OTC Portfolio Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	174,759
*	Fidelity Fifty Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	174,739
*	Fidelity Freedom 2020 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	171,760
*	Fidelity Value Strategies Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	161,270
*	Fidelity Small Cap Retirement Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	156,891
*	Fidelity Dividend Growth Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	150,691
*	Fidelity Small Cap Value Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	140,459
*	Fidelity Freedom 2045 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	117,206
*	Fidelity Real Estate Investment Portfolio Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	99,640
*	T. Rowe Price Equity Income Fund Advisor Class	Mutual Fund	n/a	n/a	n/a	n/a	n/a	76,486
*	Fidelity Equity-Income Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	69,412
*	Fidelity Large Cap Stock Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	44,726
*	Fidelity Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	42,805
*	Fidelity Freedom 2000 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	35,656
*	Fidelity Freedom 2015 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	35,360
*	Fidelity Freedom 2010 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	33,716
*	Fidelity Freedom 2050 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	27,925
*	Fidelity Freedom Income Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	13,183
*	Invesco Developing Markets CL A	Mutual Fund	n/a	n/a	n/a	n/a	n/a	1,122
*	Fidelity Freedom 2005 Fund	Mutual Fund	n/a	n/a	n/a	n/a	n/a	1,012
*	Fidelity Money Market Trust Retirement Fund	Money Market	n/a	n/a	n/a	n/a	n/a	596,778
*	Participant Loans	Loans to Participants	varies	4%	n/a	varies	-	69,470
								\$ 9,342,261

* Represents a party-in-interest to the Plan