

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). <p style="text-align: center;">▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	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>MEDIDATA SOLUTIONS, INC. 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>01/01/2004</u></td> </tr> </table>	1b Three-digit plan number (PN) ▶	<u>001</u>	1c Effective date of plan <u>01/01/2004</u>	
1b Three-digit plan number (PN) ▶	<u>001</u>				
1c Effective date of plan <u>01/01/2004</u>					
2a Plan sponsor's name and address (employer, if for a single-employer plan) (Address should include room or suite no.) <u>MEDIDATA SOLUTIONS, INC.</u> <u>79 FIFTH AVENUE</u> <u>NEW YORK, NY 10003</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2b Employer Identification Number (EIN) <u>13-4066508</u></td> </tr> <tr> <td>2c Sponsor's telephone number <u>212-918-1840</u></td> </tr> <tr> <td>2d Business code (see instructions) <u>541600</u></td> </tr> </table>	2b Employer Identification Number (EIN) <u>13-4066508</u>	2c Sponsor's telephone number <u>212-918-1840</u>	2d Business code (see instructions) <u>541600</u>	
2b Employer Identification Number (EIN) <u>13-4066508</u>					
2c Sponsor's telephone number <u>212-918-1840</u>					
2d Business code (see instructions) <u>541600</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 WONG
	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") MEDIDATA SOLUTIONS, INC. 79 FIFTH AVENUE NEW YORK, NY 10003	3b Administrator's EIN 13-4066508 3c Administrator's telephone number 212-918-1840
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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	530
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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	489
b Retired or separated participants receiving benefits.....	6b	0
c Other retired or separated participants entitled to future benefits.....	6c	85
d Subtotal. Add lines 6a , 6b , and 6c	6d	574
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.....	6e	0
f Total. Add lines 6d and 6e	6f	574
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....	6g	424
h Number of participants that terminated employment during the plan year with accrued benefits that were less than 100% vested.....	6h	0

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:
 2E 2F 2G 2J 2K 3D 3H

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)

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 MEDIDATA SOLUTIONS, INC. 401(K) PLAN	B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 MEDIDATA SOLUTIONS, INC.	
D Employer Identification Number (EIN) 13-4066508	

Part I	Service Provider Information (see instructions)
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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	
ALLIANZ GLOBAL INVESTORS DISTRIBUTO	1345 AVENUE OF THE AMERICAS NEW YORK, NY 10105

(b) Enter name and EIN or address of person who provided you disclosure on eligible indirect compensation	
ALLIANZ GLOBAL INVESTORS DISTRIBUTO	1345 AVENUE OF THE AMERICAS NEW YORK, NY 10105

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
AMERICAN CENTURY INVESTMENT SERVICE	44-0640487

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
BLACKROCK INVESTMENTS, INC.	23-2784752

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

DWS INVESTMENTS DISTRIBUTOR, INC.

36-3976708

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

FRANKLIN TEMPLETON DISTRIBUTORS, IN

100 FOUNTAIN PARKWAY
ST. PETERSBURG, FL 33716

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

FRED ALGER & COMPANY, INCORPORATED

13-2510833

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

GUARDIAN INVESTOR SERVICES, LLC

388 MARKET STREET
SAN FRANCISCO, CA 94111

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

PUTNAM RETAIL MANAGEMENT

ONE POST OFFICE SQUARE
BOSTON, MA 02109

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

T. ROWE PRICE

100 EAST PRATT STREET
BALTIMORE, MD 21202

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

VICTORY CAPITAL MANAGEMENT

13-2700161

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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)

STATE STREET CORPORATION

04-1867445

(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 52	DIRECTED TRUSTEE/CUSTODIA	0	Yes ☒ No ☐	Yes ☒ No ☐	51075	Yes ☐ No ☒

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

ADP

22-1467904

(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?
37 50 15 64	RECORD KEEPER	4500	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

ADP BROKER-DEALER

22-3319984

(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?
63 99 60 59 49	RECORD KEEPER	0	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 ☐

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
STATE STREET CORPORATION	64 52	51075
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
ADP 22-1467904	RECORDKEEPING FEES INVESTMENT MANAGEMENT FEES PAID INDIRECTLY BY PLAN	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	63 60 59	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
ALLIANZ GLOBAL INVESTORS DISTRIBUTO 1345 AVENUE OF THE AMERICAS NEW YORK, NY 10105	ANNUAL RATE 0.00200 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	63 60 59	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
ALLIANZ GLOBAL INVESTORS DISTRIBUTO 1345 AVENUE OF THE AMERICAS NEW YORK, NY 10105	ANNUAL RATE 0.00200 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00200 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS	

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
ADP BROKER-DEALER	63 60 59	0

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
AMERICAN CENTURY INVESTMENT SERVICE 44-0640487	ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	63 60 59	0

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
BLACKROCK INVESTMENTS, INC. 23-2784752	ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	63 60 59	0

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
DWS INVESTMENTS DISTRIBUTOR, INC. 36-3976708	ANNUAL RATE 0.00350 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS

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
ADP BROKER-DEALER	63 60 59	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
FRANKLIN TEMPLETON DISTRIBUTORS, IN 100 FOUNTAIN PARKWAY ST. PETERSBURG, FL 33716	ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00500 OF AVERAGE DAILY ASSETS	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	63 99 49	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
FRED ALGER & COMPANY, INCORPORATED 13-2510833	ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	63 60 59	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
GUARDIAN INVESTOR SERVICES, LLC 388 MARKET STREET SAN FRANCISCO, CA 94111	ANNUAL RATE 0.00250 OF AVERAGE DAILY ASSETS	

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
ADP BROKER-DEALER	63 60 59	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
PUTNAM RETAIL MANAGEMENT ONE POST OFFICE SQUARE BOSTON, MA 02109	ANNUAL RATE 0.00100 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00750 OF AVERAGE DAILY ASSETS	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	99 49	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
STATE STREET CORPORATION 04-1867445	ANNUAL RATE 0.00670 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00670 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00550 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00670 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00670 OF AVERAGE DAILY ASSETS	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
ADP BROKER-DEALER	63 60 59	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
T. ROWE PRICE 100 EAST PRATT STREET BALTIMORE, MD 21202	ANNUAL RATE 0.00150 OF AVERAGE DAILY ASSETS ANNUAL RATE 0.00500 OF AVERAGE DAILY ASSETS	

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
ADP BROKER-DEALER	63 60 59	0

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.
VICTORY CAPITAL MANAGEMENT 13-2700161	ANNUAL RATE 0.0025% OF AVERAGE DAILY ASSETS

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation

(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.

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)
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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:

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

Explanation:

<p style="text-align: center;">SCHEDULE D (Form 5500)</p> <p style="text-align: center; font-size: small;">Department of the Treasury Internal Revenue Service</p> <hr/> <p style="text-align: center; font-size: small;">Department of Labor Employee Benefits Security Administration</p>	<p style="text-align: center;">DFE/Participating Plan Information</p> <p style="text-align: center; font-size: small;">This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</p> <p style="text-align: center;">▶ File as an attachment to Form 5500.</p>	<p style="text-align: center; font-size: small;">OMB No. 1210-0110</p> <hr/> <p style="text-align: center; font-size: large;">2010</p> <hr/> <p style="text-align: center; font-size: small;">This Form is Open to Public Inspection.</p>
<p>For calendar plan year 2010 or fiscal plan year beginning 01/01/2010 and ending 12/31/2010</p>		
<p>A Name of plan MEDIDATA SOLUTIONS, INC. 401(K) PLAN</p>		<p>B Three-digit plan number (PN) ▶ 001</p>
<p>C Plan or DFE sponsor's name as shown on line 2a of Form 5500 MEDIDATA SOLUTIONS, INC.</p>		<p>D Employer Identification Number (EIN) 13-4066508</p>
<p>Part I Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)</p>		
<p>a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA S&P 500 INDEX FUND</p>		
<p>b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST CO</p>		
<p>c EIN-PN 04-0025081-065</p>	<p>d Entity code C</p>	<p>e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 2594116</p>
<p>a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA US BOND INDEX</p>		
<p>b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST CO</p>		
<p>c EIN-PN 04-0025081-071</p>	<p>d Entity code C</p>	<p>e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 244986</p>
<p>a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA US INFL PRTC BOND INDEX</p>		
<p>b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST CO</p>		
<p>c EIN-PN 04-0025081-076</p>	<p>d Entity code C</p>	<p>e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 144450</p>
<p>a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA RUSSELL SMALL CAP INDEX</p>		
<p>b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST CO</p>		
<p>c EIN-PN 04-0025081-084</p>	<p>d Entity code C</p>	<p>e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 662606</p>
<p>a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA INTERNATIONAL INDEX</p>		
<p>b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST CO</p>		
<p>c EIN-PN 04-0025081-462</p>	<p>d Entity code C</p>	<p>e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 743349</p>
<p>a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA TARGET RETIR INC STRAT FD</p>		
<p>b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST CO</p>		
<p>c EIN-PN 04-0025081-538</p>	<p>d Entity code C</p>	<p>e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 47367</p>
<p>a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA TARGET RET 2010 STRAT FD</p>		
<p>b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST CO</p>		
<p>c EIN-PN 04-0025081-539</p>	<p>d Entity code C</p>	<p>e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 13326</p>

a Name of MTIA, CCT, PSA, or 103-12 IE: [SSGA TARGET RET 2020 STRAT FD](#)
b Name of sponsor of entity listed in (a): [STATE STREET BANK AND TRUST CO](#)

c EIN-PN 04-0025081-540	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 301704
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a Name of MTIA, CCT, PSA, or 103-12 IE: [SSGA TARGET RET 2030 STRAT FD](#)
b Name of sponsor of entity listed in (a): [STATE STREET BANK AND TRUST CO](#)

c EIN-PN 04-0025081-541	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 721198
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a Name of MTIA, CCT, PSA, or 103-12 IE: [SSGA TARGET RET 2040 STRAT FD](#)
b Name of sponsor of entity listed in (a): [STATE STREET BANK AND TRUST CO](#)

c EIN-PN 04-0025081-542	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 326233
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a Name of MTIA, CCT, PSA, or 103-12 IE: [SSGA STABLE VALUE FUND](#)
b Name of sponsor of entity listed in (a): [STATE STREET BANK AND TRUST CO](#)

c EIN-PN 04-2675543-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 955218
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
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plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

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 <u>MEDIDATA SOLUTIONS, INC. 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>MEDIDATA SOLUTIONS, INC.</u>	D Employer Identification Number (EIN) <u>13-4066508</u>

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)	<u>1126304</u>	<u>1478236</u>
(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)	<u>175737</u>	<u>294446</u>
(9) Value of interest in common/collective trusts	1c(9)	<u>4684904</u>	<u>6754553</u>
(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)	<u>6172314</u>	<u>9313116</u>
(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	12159259	17840351

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	12159259	17840351
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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 Contributions:**

		(a) Amount	(b) Total
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	765293	
(B) Participants	2a(1)(B)	3259375	
(C) Others (including rollovers)	2a(1)(C)	362844	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		4387512

b Earnings on investments:**(1) Interest:**

(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(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)	11593	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		11593

(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)	126152	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		126152

(3) Rents	2b(3)		
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(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)		0

		(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)		0
(6) Net investment gain (loss) from common/collective trusts	2b(6)		709995
(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)		1070723
c Other income.....	2c		
d Total income. Add all income amounts in column (b) and enter total.....	2d		6305975

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	620383	
(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)		620383
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)	4500	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		4500
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		624883

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		5681092
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: SALIBELLO & BRODER, LLP

(2) EIN: 13-3051814

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.			

- 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)

<div>SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Retirement Plan Information</div> <div>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).</div> <div>► File as an attachment to Form 5500.</div>	<div>OMB No. 1210-0110</div> <div>2010</div> <div>This Form is Open to Public Inspection.</div>
For calendar plan year 2010 or fiscal plan year beginning 01/01/2010 and ending 12/31/2010		
A Name of plan MEDIDATA SOLUTIONS, INC. 401(K) PLAN		B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 MEDIDATA SOLUTIONS, INC.		D Employer Identification Number (EIN) 13-4066508
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.....		10
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): 57-1198022		
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): _____

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

**FINANCIAL STATEMENTS
AND SUPPLEMENTAL SCHEDULE**

**For the Years Ended December 31, 2010 and 2009
With Independent Auditors' Report**

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

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Salibello & Broder LLP

Certified Public Accountants

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212-315-5000 Fax: 212-397-5832

INDEPENDENT AUDITORS' REPORT

To the Plan Participants and Plan Administrator of
Medidata Solutions, Inc. 401(k) Plan

We were engaged to audit the financial statements of Medidata Solutions, Inc. 401(k) Plan (the "Plan") as of December 31, 2010 and 2009, and for the years then ended, and the supplemental schedule as of December 31, 2010, as listed in the accompanying table of contents. These financial statements and the supplemental schedule are the responsibility of the Plan's management.

As permitted by 29 CFR 2520.103-8 of the 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 3, which was certified by State Street Bank and Trust Company, the Trustee of the Plan, except for comparing such information with the related information included in the financial statements and supplemental schedule. We have been informed by the plan administrator that the Trustee holds the Plan's investment assets and executes investment transactions. The plan administrator has obtained certifications from the Trustee as of December 31, 2010 and 2009 and for the years then ended, that the information provided to the plan administrator by the Trustee is complete and accurate.

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 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.

Salibello & Broder LLP

October 12, 2011

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

DECEMBER 31, 2010 AND 2009

<u>ASSETS</u>	<u>2010</u>	<u>2009</u>
Investments, at fair value	\$ 17,545,905	\$ 11,983,522
Notes receivable from participants	294,446	175,737
Participant contributions receivable	78,150	83,582
Employer contributions receivable	<u>61,276</u>	<u>21,730</u>
Net assets available for benefits	<u>\$ 17,979,777</u>	<u>\$ 12,264,571</u>

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

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

FOR THE YEARS ENDED DECEMBER 31, 2010 AND 2009

	<u>2010</u>	<u>2009</u>
<u>ADDITIONS</u>		
Contributions:		
Participants	\$ 3,616,786	\$ 3,195,527
Employer	<u>804,839</u>	<u>710,713</u>
Total contributions	<u>4,421,625</u>	<u>3,906,240</u>
Investment income:		
Net appreciation in fair value of investments	1,780,719	2,080,671
Interest and dividends	<u>126,152</u>	<u>78,021</u>
Total investment income	1,906,871	2,158,692
Interest income on notes receivable from participants	11,593	10,022
Transfer due to a merger with another qualified plan	<u>-</u>	<u>1,190,290</u>
Total additions	<u>6,340,089</u>	<u>7,265,244</u>
<u>DEDUCTIONS</u>		
Benefits paid to participants	620,383	460,936
Administrative fees	<u>4,500</u>	<u>3,475</u>
Total deductions	<u>624,883</u>	<u>464,411</u>
Net increase	5,715,206	6,800,833
Net assets available for benefits:		
Beginning of year	<u>12,264,571</u>	<u>5,463,738</u>
End of year	<u>\$ 17,979,777</u>	<u>\$ 12,264,571</u>

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

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 1 - Description of the Plan

The following description of Medidata Solutions, Inc. 401(k) Plan (the "Plan") is provided for general information purposes only. Participants should refer to the Plan document and summary plan description for a more complete description of the Plan's provisions, copies of which may be obtained from the plan sponsor.

General

The Plan is a defined contribution plan covering all employees who are age twenty-one or older, of Medidata Solutions, Inc. (the "Company") and any participating affiliates. The Plan provides retirement benefits to eligible employees. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended ("ERISA"). Investments are participant directed, and the Plan uses State Street Bank and Trust Company as the trustee ("Trustee") and Automatic Data Processing as the recordkeeper.

On March 17, 2008, the Company acquired Fast Track Systems, Inc. ("Fast Track"). Under the purchase agreement, the Company assumed the Fast Track's 401(K) plan (the "Fast Track Plan"). In October 2008, the Plan was amended to allow Fast Track's employees to participate into the Plan. Effective February 1, 2009, the Fast Track Plan was merged into the Plan. In connection with the merger of the plans, \$1,190,290 of the assets of the Fast Track Plan were transferred into the Plan.

Contributions

Each year, participants may contribute up to 80% of pre-tax annual eligible earnings, as defined in the Plan, through salary reductions. Participants also may contribute amounts from other eligible retirement plans, as defined in the Plan. Contributions are subject to certain annual limitations as imposed by the Internal Revenue Service (the "IRS"). The Plan provides a 50% employer matching contribution of the first 4% of eligible compensation contributed by the participants. The employer matching contribution is invested in accordance with the election consistent with the participant's contributions. The Company also may elect to make non-elective contributions, as defined in the Plan.

Participant accounts

The Plan maintains individual accounts for each Plan participant. Each participant's account is credited with the participant's contributions, the Company's contributions, if any, Plan earnings or losses, and administrative fees. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 1 - Description of the Plan (continued)

Vesting

Participants are 100% vested in their rollover contributions, employee pre-tax contributions, matching contributions, qualified matching contributions, qualified non-elective contributions and any earnings thereon.

Non-elective contributions (forfeitable) and earnings thereon vest in accordance with the following schedule:

<u>Years of service</u>	<u>Vesting Percentage</u>
Less than 3	0
At least 3, but less than 4	50
4 years of more	100

Investment options

Participants may direct contributions in any investment options of the Plan, which are investments in interest-bearing cash, common and collective trust funds and mutual funds.

Payments of benefits

A participant is eligible to receive a distribution on their vested account balance under any of the following circumstances: (a) retirement, (b) termination of employment, (c) disability, or (d) death. A participant also is eligible for in-service withdrawals. Types of in-service withdrawals available under the Plan are: (a) withdrawals after age 59-1/2, (b) withdrawals of rollover contributions, and (c) hardship withdrawals. A participant receives the value of their vested account balance in the form of a single lump-sum payment or direct rollover. The Plan allows for installment distributions if participant vested account balances exceed \$5,000.

Notes receivable from participants

Participants may borrow from their vested accounts an amount not less than \$500 and not to exceed the lesser of \$50,000 or 50 percent of their vested account balance. Loan terms range from one to five years, or up to 30 years for the purchase of a primary residence. The loans are secured by the participant's vested account balance and bear interest at the rate in effect in the month the loan is effective. The interest rate is the prime rate as published in The Wall Street Journal on the 14th day of each month, plus two percentage points. This interest rate is effective for any loan processed as of the 16th day of the month.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 1 - Description of the Plan (continued)

Administrative expenses

Investment management expenses, transactional costs and service charges are paid by the Plan as deductions from the participants' accounts. Other expenses in the administration of the Plan are paid by the Company.

Note 2 - Summary of significant accounting policies

Basis of accounting

The financial statements of the Plan are prepared on the accrual basis of accounting.

Investment contracts held by a defined contribution plan are required to be reported at fair value. However, contract value is the relevant measurement attribute for that portion of the net assets available for benefits of a defined contribution plan attributable to fully benefit-responsive investments contracts because contract value is the amount participants would receive if they were to initiate permitted transactions under the terms of the Plan. The statement of net assets available for benefits presents the fair value of the investment contracts as well as the adjustment of the fully benefit-responsive investment contracts from fair value to contract value (if deemed necessary) relating to the investment contract. As of December 31, 2010 and 2009, contract value rather than fair value is included in investments because the difference is immaterial. The statement of changes in net assets available for benefits is prepared on a contract value basis.

Use of estimates

The preparation of the Plan's financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures in the financial statements. Accordingly, actual results could differ from those estimates.

Investment valuation and income recognition

The Plan's investments are reported at fair value, except for the fully benefit-responsive investments contracts which are reported at contract value. As of December 31, 2010 and 2009, the contract value of the fully benefit-responsive investments contract approximates 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. See Note 4 for discussion of fair value measurements.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 2 - Summary of significant accounting policies (continued)

Investment valuation and income recognition (continued)

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. The Plan presents in the statements of changes in net assets available for benefits the net appreciation or depreciation in the fair value of investments, which consists of realized gains or losses and the unrealized appreciation or depreciation on investments.

Payment of benefits

Benefits payments to participants are recorded upon distribution.

Risks and uncertainties

The Plan provides for investments in various investment securities that, in general, are exposed to various risks, such as interest rate, credit and overall market volatility risks. Further, due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the value of investment securities will occur in the near term, and such changes could materially affect the amounts reported in the statements of net assets available for benefits.

Income taxes

The Plan evaluates each tax position individually using the recognition and measurement criteria established in Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 740, "Income Taxes." That is, first, the Plan recognizes the financial statement benefit of a tax position if it determines that it is more likely than not (i.e., a likelihood of more than 50 percent), based on the technical merits, that the position will be sustained on examination. Then, the Plan measures the amount of benefit derived from such tax position as the largest amount of tax benefit that is greater than 50 percent likely of being realized upon settlement. The difference between a tax position taken or expected to be taken in a tax return and the tax benefit recognized and measured according to the aforementioned criteria is an unrecognized tax benefit for which a liability is created (and an expense is recorded). The Plan classifies interest and penalties associated with the liability for unrecognized tax benefits as income tax expense. The Plan is no longer subject to U.S. federal, state and local, or non-U.S. income tax examinations by tax authorities for years before 2007.

Subsequent events

The Plan evaluates subsequent events through the date that the Plan's financial statements are available to be issued.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 2 - Summary of significant accounting policies (continued)

Relevant accounting developments

In August 2009, the FASB issued Accounting Standards Update (“ASU”) No. 2009-05, “Measuring Liabilities at Fair Value.” ASU No. 2009-05 provides clarification that in circumstances in which a quoted price in an active market for the identical liability is not available, a reporting entity is required to measure fair value using one or more of the following techniques: a) the quoted price of the identical liability when traded as an asset, b) quoted prices for similar liabilities when traded as assets, or c) another valuation technique that is consistent with the principles of FASB ASC Topic No. 820, “Fair Value Measurement.” The Plan’s adoption on January 1, 2010 of the provisions of ASU No. 2009-05, as incorporated into FASB ASC Topic No. 820, did not have an impact on the Plan’s financial statements.

In January 2010, the FASB issued ASU No. 2010-06, “Improving Disclosures About Fair Value Measurements.” ASU No. 2010-06 requires a reporting entity to disclose separately the amounts of significant transfers in and out of Level 1 and Level 2 fair value measurements and the reasons for the transfers. ASU No. 2010-06 also requires a reporting entity to disclose separately, in the reconciliation for Level 3 fair value measurements, information about purchases, sales, issuances, and settlements. In addition, it clarifies existing disclosures about fair value measurements by requiring that such disclosures be made for each class of assets and liabilities. Finally, this accounting standard update clarifies that the disclosures about the valuation techniques and inputs used to measure fair value are required for value measurements that fall in either Level 2 or 3. The new disclosures and clarifications of existing disclosures are effective for the Plan annual period beginning January 1, 2010, except for the disclosures about purchases, sales, issuances, and settlements in the roll forward of activity in Level 3 fair value measurements, which are effective for the Plan annual period beginning January 1, 2011. The Plan’s adoption as of January 1, 2010 of all of the provisions of ASU No. 2010-06, as incorporated into FASB ASC Topic 820, did not have an impact on the Plan’s financial statements.

In September 2010, the FASB issued ASU No. 2010-25, “Reporting Loans to Participants by Defined Contribution Pension Plans,” which amends FASB ASC Topic 962, “Plan Accounting – Defined Contribution Plans.” Existing guidance requires participant loans to be classified as plan investments, which generally are measured at fair value. ASU No. 2010-25 will require loans to participants to be classified as notes receivable from participants, which generally will be measured at their unpaid principal balance. The amendments in ASU No. 2010-25 are to be applied retrospectively to all periods presented, effective for plan years ending after December 15, 2010. Early adoption is permitted. The Plan has adopted the provisions of ASU No. 2010-25 retrospectively as of January 1, 2009, and accordingly, reclassified prior period amounts from investments and investment income to conform to the current year presentation.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 2 - Summary of significant accounting policies (continued)

Relevant accounting developments (continued)

In May 2011, the FASB issued ASU No. 2011-04, "Amendment to Achieve Common Fair Value Measurements and Disclosure Requirement in U.S. GAAP and IFRSs." ASU No. 2011-04 was issued to provide a consistent definition of fair value between accounting principles generally accepted in the United State of America, ("U.S. GAAP") and International Financial Reporting Standards ("IFRSs"). This pronouncement is effective for reporting periods beginning on or after December 15, 2011, with early adoption prohibited. Plan management currently is evaluating the impact of the adoption of ASU No. 2011-04 on the Plan's financial statements.

Note 3 - Information certified by the Trustee (unaudited)

The following is a summary of the unaudited information regarding the Plan as included in the Plan's financial statements and supplemental schedule that was prepared by or derived from information prepared by the Trustee and furnished to the Plan Administrator. The Plan Administrator has obtained certification from the Trustee that such information is complete and accurate as of December 31, 2010 and 2009 and for the years then ended:

	<u>2010</u>	<u>2009</u>
Statements of net assets available for benefits:		
Investments, at fair value	\$ 17,545,905	\$ 11,983,522
Notes receivable from participants	294,446	175,737
Statements of changes in net assets available for benefits:		
Net appreciation in fair value of investments	\$ 1,780,719	\$ 2,080,671
Interest and dividends	126,152	78,021
Interest income on notes receivable from participants	11,593	10,022

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 3 - Information certified by the Trustee (unaudited) (continued)

The following table presents the fair value of investments as of December 31, 2010 and 2009 as reported by the Trustee. Investments that represent 5% or more of the Plan's net assets are separately identified (*):

	<u>2010</u>	<u>2009</u>
Interest bearing cash:		
SSgA Government Money Market Fund	\$ 1,478,236 *	\$ 1,126,304 *
Common and collective trust funds:		
SSgA International Index Fund	743,349	556,034
SSgA Russell Small Cap Index Fund	662,606	474,187
SSgA S&P 500 Index Fund	2,594,116 *	1,791,183 *
SSgA Stable Value Fund (at contract value)	955,218 *	708,575 *
SSgA Treasury Inflation Protected Fund Series A	144,450	106,264
SSgA Target Retirement Income Strategy Fund	47,367	35,063
SSgA Target Retirement 2010 Strategy Fund	13,326	9,495
SSgA Target Retirement 2020 Strategy Fund	301,704	191,155
SSgA Target Retirement 2030 Strategy Fund	721,198	473,220
SSgA Target Retirement 2040 Strategy Fund	326,233	94,283
SSgA U.S. Bond Index Fund	244,986	245,445
	<u>6,754,553</u>	<u>4,684,904</u>
Mutual funds:		
Allianz NFJ Small Cap Value Fund	1,262,323 *	844,358 *
American Century Inc. & Growth Fund	1,015,410 *	740,018 *
Alger Small Cap Growth Fund	621,757	370,310
RS Value Fund	655,450	407,289
DWS Mid Cap Growth Fund	258,152	172,256
T. Rowe Price Mid Cap Value Fund	1,651,095 *	1,074,475 *
Templeton Growth Fund	641,178	480,962
The George Putnam Balanced Fund	341,189	239,351
PIMCO Real Return Fund	535,804	347,307
PIMCO Total Return Fund	484,182	268,848
Victory Diversified Stock Fund	1,387,565 *	1,000,631 *
Blackrock Global Allocation Fund	459,011	226,509
	<u>9,313,116</u>	<u>6,172,314</u>
	<u>\$ 17,545,905</u>	<u>\$ 11,983,522</u>

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 3 - Information certified by the Trustee (unaudited) (continued)

For the years ended December 31, 2010 and 2009, the Plan's investments (including gains and losses on investments bought and sold, as well as held during the year) appreciated in value as follows:

	<u>2010</u>	<u>2009</u>
Common and collective trust funds	\$ 709,995	\$ 841,894
Mutual funds	<u>1,070,724</u>	<u>1,238,777</u>
	<u>\$ 1,780,719</u>	<u>\$ 2,080,671</u>

Note 4 – Fair value measurements

The Plan follows the provisions of FASB ASC Topic 820 which establishes a framework for measuring fair value. That framework provides 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 following three-tier fair value hierarchy is established as a basis for considering such assumptions and for inputs used in the valuation methodologies in measuring fair value:

- Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.
- Level 2 Inputs to the valuation methodology include:
- quoted prices for similar assets or liabilities in active markets;
 - quoted prices for identical or similar assets or liabilities in inactive markets;
 - inputs other than quoted prices that are observable for the asset or liability;
 - inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.
- Level 3 Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 4 – Fair value measurements (continued)

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following is a description of the valuation methodologies used for these items, as well as the general classification of such items pursuant to the fair value hierarchy of FASB ASC Topic 820:

Interest-bearing cash – The investment includes a government money market fund, which is valued based on the Plan's interests in the net asset value of its underlying assets reported by the trustee of the fund.

Common and collective trust funds – The investments include certain index funds and a stable value fund. The Plan's interests in the index funds are valued based upon unit values. Unit values are based on fair value of the underlying assets of the funds derived from inputs principally from or corroborated by observable market data by correlation or other means. The stable value fund is valued at contract value, which approximates fair value.

Mutual funds – Valued at unadjusted quoted price of shares held by the Plan at year end.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The fair value investment amounts and changes in fair value of the investments as disclosed are unaudited as previously described in Note 3.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 4 – Fair value measurements (continued)

The following table sets forth by level, and for mutual funds, by investment category, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2010 and 2009:

Assets at Fair Value as of December 31, 2010				
	Level 1	Level 2	Level 3	Total
Interest-bearing cash	\$ 1,478,236	\$ -	\$ -	\$ 1,478,236
Common and collective trust funds	-	5,799,335	955,218	6,754,553
Mutual funds:				
Growth and income	1,015,410	-	-	1,015,410
Growth	1,521,087	-	-	1,521,087
Value	3,568,868	-	-	3,568,868
Bond	1,019,985	-	-	1,019,985
Blend	1,846,577	-	-	1,846,577
Balanced	341,189	-	-	341,189
Total mutual funds	9,313,116	-	-	9,313,116
Total assets at fair value	<u>\$ 10,791,352</u>	<u>\$ 5,799,335</u>	<u>\$ 955,218</u>	<u>\$ 17,545,905</u>

Assets at Fair Value as of December 31, 2009				
	Level 1	Level 2	Level 3	Total
Interest-bearing cash	\$ 1,126,304	\$ -	\$ -	\$ 1,126,304
Common and collective trust funds	-	3,976,329	708,575	4,684,904
Mutual funds:				
Growth and income	740,018	-	-	740,018
Growth	1,023,528	-	-	1,023,528
Value	2,326,122	-	-	2,326,122
Bond	616,155	-	-	616,155
Blend	1,227,140	-	-	1,227,140
Balanced	239,351	-	-	239,351
Total mutual funds	6,172,314	-	-	6,172,314
Total assets at fair value	<u>\$ 7,298,618</u>	<u>\$ 3,976,329</u>	<u>\$ 708,575</u>	<u>\$ 11,983,522</u>

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 4 – Fair value measurements (continued)

The following table sets forth a summary of changes in the fair value of the Plan's Level 3 assets for the years ended December 31, 2010 and 2009:

	SSGA Stable Value Fund	
	For the Year Ended December 31,	
	2010	2009
Balance at the beginning of the year	\$ 708,575	\$ 460,871
Purchases	380,350	441,464
Sales	(143,987)	(204,492)
Realized gains	2,063	3,933
Unrealized gains	8,217	6,799
Balance at the end of the year	<u>\$ 955,218</u>	<u>\$ 708,575</u>

Realized and unrealized gains are included in net appreciation in fair value of investments in the statement of changes in net assets.

The following table as of December 31, 2010 and 2009 is a summary of the investments held by the Plan reported at net asset value (unit value):

	Fair Value Estimated Using Net Asset Value per Share December 31,	
	2010	2009
Various SSgA index funds	\$ 4,389,507	\$ 3,173,113
Various SSgA target retirement strategy funds	1,409,828	803,216
	<u>\$ 5,799,335</u>	<u>\$ 3,976,329</u>

The investment objective of the various SSgA index funds is to match, as closely as possible, the performance of their respective benchmark indices. The investment objective of the various SSgA target retirement strategy funds is to match the return of the composite benchmark, comprised of several indices.

The SSgA index funds and the SSgA target retirement strategy funds may be redeemed daily without advance notice period. There are no unfunded commitments at December 31, 2010.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 5 - Investment in Stable Value Fund

The Plan has entered into a benefit-responsive investment contract with State Street Bank which maintains the contributions in a managed account. The account is credited with earnings on the underlying investments and charged for participant withdrawals and administrative expenses. The investment contract issuer is not contractually obligated to repay the principal and a specified interest rate to the Plan. However, the underlying assets of the fund carry guaranteed rates of interest.

As described in Note 2, because the contract is fully benefit-responsive, contract value is the relevant measurement attribute for that portion of the net assets available for benefits attributable to the guaranteed investment contract. Contract value, as reported to the Plan by State Street Bank, represents contributions made under the contract, plus earnings, less participant withdrawals and administrative expenses. Participants may ordinarily direct the withdrawal or transfer of all or a portion of their investment at contract value.

There are no reserves against contract value for credit risk for the contract issuer or otherwise. Interest income on the SSgA Stable Value Fund is calculated and credited monthly based on monthly income and an average of month-end units outstanding. The investment contracts included in this fund had an average yield of 1.10% and 3.25% for the years ended December 31, 2010 and 2009, respectively. The average crediting interest rate was 1.85% and 3.39% for the years ended December 31, 2010 and 2009, respectively.

Certain events limit the ability of the Plan to transact at contract value with the issuer. Such events include the following: (a) amendments to the Plan documents (including complete or partial plan termination or merger with another plan), (b) bankruptcy of the plan sponsor or other plan sponsor events (e.g., divestitures or spin-offs of a subsidiary) which cause a significant withdrawal from the Plan, or (c) the failure of the Plan to qualify for exemption from federal income taxes or any other prohibited transaction exception under ERISA. The Plan Administrator does not believe that the occurrence of any such event, which would limit the Plan's ability to transact at contract value with participants, is probable.

The issuer may terminate the contracts and settle at amounts that differ from contract value if certain conditions within the investment contracts are not met.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 6 - Related party transactions

Certain investments are managed by the Trustee. Any purchases and sales of these funds are performed in the open market at fair value and qualify as party-in-interest transactions. Such transactions, while considered party-in-interest transactions under ERISA regulations, are permitted under the provisions of the Plan and are specifically exempt from the prohibition of party-in-interest transactions under ERISA.

Note 7 - Plan termination

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

Note 8 - Tax status

The Plan has adopted Automatic Data Processing Inc.'s standardized 401(k) prototype plan, which has received a favorable opinion letter from the Internal Revenue Service ("IRS").

The Company discovered an operational error resulting from a failure to correctly apply the Plan's definition of compensation in determining the level of participant deferrals and matching contributions. The Company has taken appropriate corrective measures pursuant to the IRS's Self-Correction Program, which has resulted in \$40,703 in corrective contributions. This amount is included in employer contributions receivable on the statement of net assets as of December 31, 2010 and in employer contributions on the statement of changes in net assets for the year ended December 31, 2010 to reflect the correction of the error.

Notwithstanding the above, the Plan Administrator believes the Plan is designed and operated in accordance with, and continues to qualify under the applicable requirements of the Internal Revenue Code and that the Plan is exempt from Federal income taxes.

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2010 AND 2009

Note 9 - Reconciliation of Financial Statements to Form 5500

The following table is presented to reconcile net assets available for benefits per the financial statements to the Form 5500 at December 31, 2010 and 2009:

	2010	2009
Net assets available for benefits as reported in the financial statements	\$ 17,979,777	\$ 12,264,571
Less: total contributions receivable	(139,426)	(105,312)
Net assets as reported on Form 5500	<u>\$ 17,840,351</u>	<u>\$ 12,159,259</u>

The following is a reconciliation of the net increase in assets available for benefits as reported in the financial statements to the net income as reported on the Form 5500 for the years ended December 31, 2010 and 2009:

	2010	2009
Net increase in assets available for benefits as reported in the financial statements	\$ 5,715,206	\$ 6,800,833
Less: transfer to plan	-	(1,190,290)
Less: current year total contributions receivable	(139,426)	(105,312)
Plus: prior year total contributions receivable	105,312	-
Net income as reported on Form 5500	<u>\$ 5,681,092</u>	<u>\$ 5,505,231</u>

Note 10 - Subsequent events

Effective January 1, 2011, the Plan was amended to change the definition of base compensation from W-2 wages to the simplified definition of compensation utilized in Section 415 of the Internal Revenue Code.

For the purposes of determining the effect of subsequent events on these financial statements, management has evaluated events subsequent to December 31, 2010 and through October 12, 2011, the date the financial statements were available to be issued.

SUPPLEMENTAL SCHEDULE

MEDIDATA SOLUTIONS, INC. 401(k) PLAN

**SCHEDULE H (FORM 5500) – LINE 4i:
SCHEDULE OF ASSETS (HELD AT END OF YEAR)**

ID #13-4066508; PLAN 001

DECEMBER 31, 2010

(a)	(b) Identify of issue, borrower, lessor or similar party	(c) Description of investments including maturity date, rate of interest, collateral, par, or maturity value	(d) Cost**	(e) Current Value
	Interest-bearing Cash:			
*	State Street Bank and Trust Co.	SSgA Government Money Market Fund	\$	1,478,236
	Common and Collective Trust Funds:			
*	State Street Bank and Trust Co.	SSgA International Index Fund		743,349
*	State Street Bank and Trust Co.	SSgA Russell Small Cap Index Fund		662,606
*	State Street Bank and Trust Co.	SSgA S&P 500 Index Fund		2,594,116
*	State Street Bank and Trust Co.	SSgA Stable Value Fund (at contract value)		955,218
*	State Street Bank and Trust Co.	SSgA Treasury Inflation Protected Fund Series A		144,450
*	State Street Bank and Trust Co.	SSgA Target Retirement Income Strategy Fund		47,367
*	State Street Bank and Trust Co.	SSgA Target Retirement 2010 Strategy Fund		13,326
*	State Street Bank and Trust Co.	SSgA Target Retirement 2020 Strategy Fund		301,704
*	State Street Bank and Trust Co.	SSgA Target Retirement 2030 Strategy Fund		721,198
*	State Street Bank and Trust Co.	SSgA Target Retirement 2040 Strategy Fund		326,233
*	State Street Bank and Trust Co.	SSgA U.S. Bond Index Fund		244,986
				<u>6,754,553</u>
	Mutual Funds:			
	Allianz Global Investors	Allianz NFJ Small Cap Value Fund		1,262,323
	American Century Investments	American Century Inc. & Growth Fund		1,015,410
	Alger Investments	Alger Small Cap Growth Fund		621,757
	RS Investments	RS Value Fund		655,450
	DWS Advisor Funds	DWS Mid Cap Growth Fund		258,152
	T. Rowe Price Financial Institution Services	T. Rowe Price Mid Cap Value Fund		1,651,095
	Franklin Templeton Investments	Templeton Growth Fund		641,178
	Putnam Investments	The George Putnam Balanced Fund		341,189
	PIMCO	PIMCO Real Return Fund		535,804
	PIMCO	PIMCO Total Return Fund		484,182
	Victory Capital Management Inc.	Victory Diversified Stock Fund		1,387,565
	Blackrock Inc.	Blackrock Global Allocation Fund		459,011
				<u>9,313,116</u>
	Total investment per financial statements			17,545,905
*	Participant Loans	Interest rates at 5.25% - 10.25%		<u>294,446</u>
	Total investment per Form 5500			<u><u>\$ 17,840,351</u></u>

* A party-in interest as defined by ERISA

** Cost omitted for participant directed investments

Schedule C, Line 2(h) Formula Description

For those service providers listed on Line 2 for which Line 2(h) has been checked “yes”:

For a description of indirect compensation received by service providers listed on Line 2 that was disclosed as a formula, please see Line 3(e). Please note: If indirect compensation disclosed as a formula was received by a service provider from more than one source, there will be multiple Lines 3(e) for that service provider.

Attachment to 2010 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name MEDIDATA SOLUTIONS, INC. 401(K) PLAN

EIN: 13-4066508

Plan Sponsor's Name MEDIDATA SOLUTIONS, INC.

PN: 001

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	ALGER SMALL CAP GROWTH INSTL-I	REGISTERED INVESTMENT COMPANY		621,757
	DWS MID CAP GROWTH FUND-A	REGISTERED INVESTMENT COMPANY		258,152
	PIMCO REAL RETURN FUND - A	REGISTERED INVESTMENT COMPANY		535,804
	AMERICAN CENTURY INC & GR -A	REGISTERED INVESTMENT COMPANY		1,015,410
	GEORGE PUTNAM BALANCED M	REGISTERED INVESTMENT COMPANY		341,189
	T. ROWE PRICE MID-CAP VALUE -R	REGISTERED INVESTMENT COMPANY		1,651,095
	PIMCO TOTAL RETURN FUND - A	REGISTERED INVESTMENT COMPANY		484,182

Attachment to 2010 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name _____
Plan Sponsor's Name _____

EIN: _____
PN: _____

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	ALLIANZ NFJ SMALL-CAP VALUE -A	REGISTERED INVESTMENT COMPANY		1,262,323
	VICTORY DIVERSIFIED STOCK FD-A	REGISTERED INVESTMENT COMPANY		1,387,565
	RS VALUE FUND - A	REGISTERED INVESTMENT COMPANY		655,450
	BLACKROCK GLOBAL ALLOCATION A	REGISTERED INVESTMENT COMPANY		459,012
	TEMPLETON GROWTH - R	REGISTERED INVESTMENT COMPANY		641,178
	PARTICIPANT LOANS	INTEREST RATES (5.25% TO 10.25%)		294,446
	SSGA GOVERNMENT MONEY MARKET	INTEREST-BEARING CASH		1,478,236

Attachment to 2010 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name _____
Plan Sponsor's Name _____

EIN: _____
PN: _____

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	SSGA S&P 500 INDEX FUND	COMMON/COLLECTIVE TRUST		2,594,116
	SSGA US BOND INDEX	COMMON/COLLECTIVE TRUST		244,986
	SSGA US INFL PRTC BOND INDEX	COMMON/COLLECTIVE TRUST		144,450
	SSGA RUSSELL SMALL CAP INDEX	COMMON/COLLECTIVE TRUST		662,606
	SSGA INTERNATIONAL INDEX	COMMON/COLLECTIVE TRUST		743,349
	SSGA TARGET RETIR INC STRAT FD	COMMON/COLLECTIVE TRUST		47,367
	SSGA TARGET RET 2010 STRAT FD	COMMON/COLLECTIVE TRUST		13,326

Attachment to 2010 Form 5500
Schedule H, line 4i - Schedule of Assets (Held at End of Year)

Plan Name _____
Plan Sponsor's Name _____

EIN: _____
PN: _____

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current value
	SSGA TARGET RET 2020 STRAT FD	COMMON/COLLECTIVE TRUST		301,704
	SSGA TARGET RET 2030 STRAT FD	COMMON/COLLECTIVE TRUST		721,198
	SSGA TARGET RET 2040 STRAT FD	COMMON/COLLECTIVE TRUST		326,233
	SSGA STABLE VALUE FUND	COMMON/COLLECTIVE TRUST		955,218