| Form 5500 | Annual Return/Report of Employee Benefit Plan | OMB Nos. 1210-0110 1210-0089 |
|---|---|---|
| Department of the Treasury Internal Revenue Service<br>Department of Labor Employee Benefits Security Administration<br>Pension Benefit Guaranty Corporation | 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).<br>▶ **Complete all entries in accordance with the instructions to the Form 5500.** | **2010**<br>**This Form is Open to Public Inspection** |

## Part I Annual Report Identification Information

For calendar plan year 2010 or fiscal plan year beginning 06/01/2010 and ending 05/31/2011

**A** This return/report is for:
- [ ] a multiemployer plan;
- [ ] a multiple-employer plan; or
- [X] 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:
- [X] Form 5558;
- [ ] automatic extension;
- [ ] the DFVC program;
- [ ] special extension (enter description)

## Part II Basic Plan Information—enter all requested information

**1a** Name of plan
ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**1b** Three-digit plan number (PN) ▶ 001

**1c** Effective date of plan 06/01/1965

**2a** Plan sponsor's name and address (employer, if for a single-employer plan) (Address should include room or suite no.)
ASM INTERNATIONAL

9639 KINSMAN RD
MATERIALS PARK, OH 44073-0001

**2b** Employer Identification Number (EIN) 34-0714532

**2c** Sponsor's telephone number 440-338-5151

**2d** Business code (see instructions) 813000

**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. | 03/07/2012 | JANICE FARMWALD |
| | **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.**

**3a** Plan administrator's name and address (if same as plan sponsor, enter "Same")
ASM INTERNATIONAL

9639 KINSMAN RD
MATERIALS PARK, OH 44073-0001

**3b** Administrator's EIN
34-0714532

**3c** Administrator's telephone number
440-338-5151

**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

| | | | |
|---|---|---|---|
| **5** | Total number of participants at the beginning of the plan year | **5** | 335 |
| **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** | 145 |
| **b** | Retired or separated participants receiving benefits | **6b** | 0 |
| **c** | Other retired or separated participants entitled to future benefits | **6c** | 187 |
| **d** | Subtotal. Add lines **6a**, **6b**, and **6c** | **6d** | 332 |
| **e** | Deceased participants whose beneficiaries are receiving or are entitled to receive benefits | **6e** | 0 |
| **f** | Total. Add lines **6d** and **6e** | **6f** | 332 |
| **g** | Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) | **6g** | 291 |
| **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** | |

**8a** If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:
2C 2G

**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)** [X] 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)** [X] Insurance
- **(2)** [ ] Code section 412(e)(3) insurance contracts
- **(3)** [ ] Trust
- **(4)** [ ] General assets of the sponsor

**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)** [X] **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)** [X] **H** (Financial Information)
- **(2)** [ ] **I** (Financial Information – Small Plan)
- **(3)** [X] 1 **A** (Insurance Information)
- **(4)** [X] **C** (Service Provider Information)
- **(5)** [X] **D** (DFE/Participating Plan Information)
- **(6)** [ ] **G** (Financial Transaction Schedules)

| SCHEDULE A (Form 5500) | Insurance Information | OMB No. 1210-0110 |
|---|---|---|
| Department of the Treasury Internal Revenue Service<br>Department of Labor Employee Benefits Security Administration<br>Pension Benefit Guaranty Corporation | This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).<br>▶ **File as an attachment to Form 5500.**<br>▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2). | **2010**<br>**This Form is Open to Public Inspection** |

For calendar plan year 2010 or fiscal plan year beginning 06/01/2010 and ending 05/31/2011

| **A** Name of plan | **B** Three-digit plan number (PN) ▶ | 001 |
|---|---|---|
| ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN | | |

| **C** Plan sponsor's name as shown on line 2a of Form 5500. | **D** Employer Identification Number (EIN) |
|---|---|
| ASM INTERNATIONAL | 34-0714532 |

**Part I** **Information Concerning Insurance Contract Coverage, Fees, and Commissions** Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.

**1** Coverage Information:

**(a)** Name of insurance carrier

TIAA-CREF

| **(b)** EIN | **(c)** NAIC code | **(d)** Contract or identification number | **(e)** Approximate number of persons covered at end of policy or contract year | Policy or contract year **(f)** From | **(g)** To |
|---|---|---|---|---|---|
| 13-1624203 | 69345 | 346194 | 289 | 06/01/2010 | 05/31/2011 |

**2** Insurance fee and commission information. Enter the total fees and total commissions paid. List in item 3 the agents, brokers, and other persons in descending order of the amount paid.

| **(a)** Total amount of commissions paid | **(b)** Total amount of fees paid |
|---|---|
| | |

**3** Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

**(a)** Name and address of the agent, broker, or other person to whom commissions or fees were paid

| **(b)** Amount of sales and base commissions paid | Fees and other commissions paid **(c)** Amount | **(d)** Purpose | **(e)** Organization code |
|---|---|---|---|
| | | | |

**(a)** Name and address of the agent, broker, or other person to whom commissions or fees were paid

| **(b)** Amount of sales and base commissions paid | Fees and other commissions paid **(c)** Amount | **(d)** Purpose | **(e)** Organization code |
|---|---|---|---|
| | | | |

**(a)** Name and address of the agent, broker, or other person to whom commissions or fees were paid

| **(b)** Amount of sales and base commissions paid | Fees and other commissions paid | | **(e)** Organization code |
|---|---|---|---|
| | **(c)** Amount | **(d)** Purpose | |
| | | | |

**(a)** Name and address of the agent, broker, or other person to whom commissions or fees were paid

| **(b)** Amount of sales and base commissions paid | Fees and other commissions paid | | **(e)** Organization code |
|---|---|---|---|
| | **(c)** Amount | **(d)** Purpose | |
| | | | |

**(a)** Name and address of the agent, broker, or other person to whom commissions or fees were paid

| **(b)** Amount of sales and base commissions paid | Fees and other commissions paid | | **(e)** Organization code |
|---|---|---|---|
| | **(c)** Amount | **(d)** Purpose | |
| | | | |

**(a)** Name and address of the agent, broker, or other person to whom commissions or fees were paid

| **(b)** Amount of sales and base commissions paid | Fees and other commissions paid | | **(e)** Organization code |
|---|---|---|---|
| | **(c)** Amount | **(d)** Purpose | |
| | | | |

**(a)** Name and address of the agent, broker, or other person to whom commissions or fees were paid

| **(b)** Amount of sales and base commissions paid | Fees and other commissions paid | | **(e)** Organization code |
|---|---|---|---|
| | **(c)** Amount | **(d)** Purpose | |
| | | | |

## Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

| | | | |
|---|---|---|---|
| 4 | Current value of plan's interest under this contract in the general account at year end | 4 | 12111792 |
| 5 | Current value of plan's interest under this contract in separate accounts at year end | 5 | 205804 |

**6** Contracts With Allocated Funds:

**a** State the basis of premium rates ▶

| | | | |
|---|---|---|---|
| b | Premiums paid to carrier | 6b | |
| c | Premiums due but unpaid at the end of the year | 6c | |
| d | If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount. | 6d | |

Specify nature of costs ▶

**e** Type of contract: (1) [X] individual policies (2) [ ] group deferred annuity

(3) [ ] other (specify) ▶

**f** If contract purchased, in whole or in part, to distribute benefits from a terminating plan check here ▶ [ ]

**7** Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

**a** Type of contract: (1) [ ] deposit administration (2) [ ] immediate participation guarantee

(3) [X] guaranteed investment (4) [ ] other ▶

| | | | | |
|---|---|---|---|---|
| b | Balance at the end of the previous year | | 7b | 6308707 |
| c | Additions: (1) Contributions deposited during the year | 7c(1) | 71258 | |
| | (2) Dividends and credits | 7c(2) | 0 | |
| | (3) Interest credited during the year | 7c(3) | 235641 | |
| | (4) Transferred from separate account | 7c(4) | 1077732 | |
| | (5) Other (specify below) | 7c(5) | | |
| | ▶ | | | |
| | (6)Total additions | | 7c(6) | 1384631 |
| d | Total of balance and additions (add **b** and **c(6)**). | | 7d | 7693338 |
| e | Deductions: | | | |
| | (1) Disbursed from fund to pay benefits or purchase annuities during year | 7e(1) | 687746 | |
| | (2) Administration charge made by carrier | 7e(2) | 0 | |
| | (3) Transferred to separate account | 7e(3) | 1013677 | |
| | (4) Other (specify below) | 7e(4) | | |
| | ▶ | | | |
| | (5) Total deductions | | 7e(5) | 1701423 |
| f | Balance at the end of the current year (subtract **e(5)** from **d**) | | 7f | 5991915 |

## Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organization(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

**8** Benefit and contract type (check all applicable boxes)

- **a** ☐ Health (other than dental or vision)
- **b** ☐ Dental
- **c** ☐ Vision
- **d** ☐ Life insurance
- **e** ☐ Temporary disability (accident and sickness)
- **f** ☐ Long-term disability
- **g** ☐ Supplemental unemployment
- **h** ☐ Prescription drug
- **i** ☐ Stop loss (large deductible)
- **j** ☐ HMO contract
- **k** ☐ PPO contract
- **l** ☐ Indemnity contract
- **m** ☐ Other (specify) ▶

| | | | | |
|---|---|---|---|---|
| **9** Experience-rated contracts: | | | | |
| **a** Premiums: (1) Amount received | 9a(1) | | | |
| (2) Increase (decrease) in amount due but unpaid | 9a(2) | | | |
| (3) Increase (decrease) in unearned premium reserve | 9a(3) | | | |
| (4) Earned ((**1**) + (**2**) - (**3**)) | | | 9a(4) | 0 |
| **b** Benefit charges (1) Claims paid | 9b(1) | | | |
| (2) Increase (decrease) in claim reserves | 9b(2) | | | |
| (3) Incurred claims (add (**1**) and (**2**)) | | | 9b(3) | 0 |
| (4) Claims charged | | | 9b(4) | |
| **c** Remainder of premium: (1) Retention charges (on an accrual basis) -- | | | | |
| (A) Commissions | 9c(1)(A) | | | |
| (B) Administrative service or other fees | 9c(1)(B) | | | |
| (C) Other specific acquisition costs | 9c(1)(C) | | | |
| (D) Other expenses | 9c(1)(D) | | | |
| (E) Taxes | 9c(1)(E) | | | |
| (F) Charges for risks or other contingencies | 9c(1)(F) | | | |
| (G) Other retention charges | 9c(1)(G) | | | |
| (H) Total retention | | | 9c(1)(H) | 0 |
| (2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.) | | | 9c(2) | |
| **d** Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement | | | 9d(1) | |
| (2) Claim reserves | | | 9d(2) | |
| (3) Other reserves | | | 9d(3) | |
| **e** Dividends or retroactive rate refunds due. (Do not include amount entered in **c(2)**.) | | | 9e | |
| **10** Nonexperience-rated contracts: | | | | |
| **a** Total premiums or subscription charges paid to carrier | | | 10a | |
| **b** If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, item 2 above, report amount. | | | 10b | |

Specify nature of costs ▶

## Part IV Provision of Information

**11** Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

**12** If the answer to line 11 is "Yes," specify the information not provided. ▶

| SCHEDULE C (Form 5500) | Service Provider Information | OMB No. 1210-0110 |
|---|---|---|
| Department of the Treasury Internal Revenue Service | This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). | 2010 |
| Department of Labor Employee Benefits Security Administration | ▶ **File as an attachment to Form 5500.** | **This Form is Open to Public Inspection.** |
| Pension Benefit Guaranty Corporation | | |

For calendar plan year 2010 or fiscal plan year beginning 06/01/2010 and ending 05/31/2011

**A** Name of plan
ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**B** Three-digit plan number (PN) ▶ 001

**C** Plan sponsor's name as shown on line 2a of Form 5500
ASM INTERNATIONAL

**D** Employer Identification Number (EIN)
34-0714532

## Part I Service Provider Information (see instructions)

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

### 1 Information on Persons Receiving Only Eligible Indirect Compensation

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

TIAA

13-1624203

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

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

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

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

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

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

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

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

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

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

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

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

**(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 |
|---|---|---|
| | | |
| **(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. | |
| | | |

| **(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)

| | |
|---|---|
| **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:

| SCHEDULE D (Form 5500) | DFE/Participating Plan Information | OMB No. 1210-0110 |
|---|---|---|
| Department of the Treasury Internal Revenue Service<br>Department of Labor Employee Benefits Security Administration | This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).<br>▶ **File as an attachment to Form 5500.** | **2010**<br>**This Form is Open to Public Inspection.** |

For calendar plan year 2010 or fiscal plan year beginning 06/01/2010 and ending 05/31/2011

**A** Name of plan
ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**B** Three-digit plan number (PN) ▶ 001

**C** Plan or DFE sponsor's name as shown on line 2a of Form 5500
ASM INTERNATIONAL

**D** Employer Identification Number (EIN)
34-0714532

## 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)

**a** Name of MTIA, CCT, PSA, or 103-12 IE: TIAA-CREF REAL ESTATE ACCOUNT

**b** Name of sponsor of entity listed in (a): TIAA-CREF

| **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) |
|---|---|---|
| 13-1624203-004 | P | 205804 |

**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) |
|---|---|---|
| | | |

**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) |
|---|---|---|
| | | |

**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) |
|---|---|---|
| | | |

**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) |
|---|---|---|
| | | |

**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) |
|---|---|---|
| | | |

**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) |
|---|---|---|
| | | |

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

**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) |
|---|---|---|

## 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 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 |
| **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 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) | Financial Information | OMB No. 1210-0110 |
|---|---|---|
| Department of the Treasury Internal Revenue Service<br>Department of Labor Employee Benefits Security Administration<br>Pension Benefit Guaranty Corporation | 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).<br>▶ **File as an attachment to Form 5500.** | **2010**<br>**This Form is Open to Public Inspection** |

For calendar plan year 2010 or fiscal plan year beginning 06/01/2010 and ending 05/31/2011

**A** Name of plan
ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**B** Three-digit plan number (PN) ▶ 001

**C** Plan sponsor's name as shown on line 2a of Form 5500
ASM INTERNATIONAL

**D** Employer Identification Number (EIN)
34-0714532

## Part I Asset and Liability Statement

**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) | | |
| **(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) | | |
| **(9)** Value of interest in common/collective trusts | 1c(9) | | |
| **(10)** Value of interest in pooled separate accounts | 1c(10) | 171202 | 205804 |
| **(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) | 5140521 | 6119877 |
| **(14)** Value of funds held in insurance company general account (unallocated contracts) | 1c(14) | 6308707 | 5991915 |
| **(15)** Other | 1c(15) | | |

| | | (a) Beginning of Year | (b) End of Year |
|---|---|---|---|
| **1d** Employer-related investments: | | | |
| **(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 | 11620430 | 12317596 |
| **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 through1j) | 1k | 0 | 0 |
| **Net Assets** | | | |
| **l** Net assets (subtract line 1k from line 1f) | 1l | 11620430 | 12317596 |

## Part II Income and Expense Statement

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

| Income | | (a) Amount | (b) Total |
|---|---|---|---|
| **a Contributions:** | | | |
| **(1)** Received or receivable in cash from: **(A)** Employers | 2a(1)(A) | 358892 | |
| **(B)** Participants | 2a(1)(B) | | |
| **(C)** Others (including rollovers) | 2a(1)(C) | 38081 | |
| **(2)** Noncash contributions | 2a(2) | | |
| **(3)** Total contributions. Add lines **2a(1)(A), (B), (C),** and line **2a(2)** | 2a(3) | | 396973 |
| **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) | | |
| **(F)** Other | 2b(1)(F) | 235641 | |
| **(G)** Total interest. Add lines **2b(1)(A)** through **(F)** | 2b(1)(G) | | 235641 |
| **(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) | | |
| **(D)** Total dividends. Add lines **2b(2)(A)**, **(B)**, and **(C)** | 2b(2)(D) | | 0 |
| **(3)** Rents | 2b(3) | | |
| **(4)** Net gain (loss) on sale of assets: **(A)** Aggregate proceeds | 2b(4)(A) | | |
| **(B)** Aggregate carrying amount (see instructions) | 2b(4)(B) | | |
| **(C)** Subtract line **2b(4)(B)** from line **2b(4)(A)** and enter result | 2b(4)(C) | | 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) | | |
| **(7)** Net investment gain (loss) from pooled separate accounts | 2b(7) | | 36552 |
| **(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) | | 1173256 |
| **c** Other income | 2c | | |
| **d** Total income. Add all **income** amounts in column (b) and enter total | 2d | | 1842422 |

## Expenses

| | | | |
|---|---|---|---|
| **e** Benefit payment and payments to provide benefits: | | | |
| **(1)** Directly to participants or beneficiaries, including direct rollovers | 2e(1) | 806488 | |
| **(2)** To insurance carriers for the provision of benefits | 2e(2) | 338768 | |
| **(3)** Other | 2e(3) | | |
| **(4)** Total benefit payments. Add lines **2e(1)** through **(3)** | 2e(4) | | 1145256 |
| **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) | | |
| **(5)** Total administrative expenses. Add lines **2i(1)** through **(4)** | 2i(5) | | 0 |
| **j** Total expenses. Add all **expense** amounts in column (b) and enter total | 2j | | 1145256 |

## Net Income and Reconciliation

| | | | |
|---|---|---|---|
| **k** Net income (loss). Subtract line **2j** from line **2d** | 2k | | 697166 |
| **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: HILL, BARTH & KING LLC **(2)** EIN: 34-1897225

**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.) | 4a | | 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.) | 4b | | 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.) | 4c | | 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.) | 4d | | X | |
| **e** | Was this plan covered by a fidelity bond? | 4e | 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? | 4f | | 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? | 4g | | 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? | 4h | | 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.) | 4i | 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.) | 4j | | 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? | 4k | | X | |
| **l** | Has the plan failed to provide any benefit when due under the plan? | 4l | | X | |
| **m** | If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.) | 4m | | 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. | 4n | | | |

**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) |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

| SCHEDULE R (Form 5500) | Retirement Plan Information | OMB No. 1210-0110 |
|---|---|---|
| Department of the Treasury Internal Revenue Service<br>Department of Labor Employee Benefits Security Administration<br>Pension Benefit Guaranty Corporation | 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).<br>▶ **File as an attachment to Form 5500.** | **2010**<br>**This Form is Open to Public Inspection.** |

For calendar plan year 2010 or fiscal plan year beginning 06/01/2010 and ending 05/31/2011

**A** Name of plan
ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**B** Three-digit plan number (PN) ▶ 001

**C** Plan sponsor's name as shown on line 2a of Form 5500
ASM INTERNATIONAL

**D** Employer Identification Number (EIN)
34-0714532

## Part I Distributions

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

**1** Total value of distributions paid in property other than in cash or the forms of property specified in the instructions ..... **1** 0

**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): 13-1624203 _____

**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** 14

## Part II Funding Information (If the plan is not subject to the minimum funding requirements of section of 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** | 358892 |
| | **b** Enter the amount contributed by the employer to the plan for this plan year ..... | **6b** | 358892 |
| | **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** | 0 |

**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**

## 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):

# FINANCIAL STATEMENTS
# AND SUPPLEMENTAL SCHEDULE

## ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**May 31, 2011 and 2010**

- - - o o O o o - - -

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- - - o o O o o - - -

HbK
HILL, BARTH & KING LLC

7680 Market Street
Boardman, Ohio 44512
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February 18, 2012

Plan Administrator
ASM International Revised and Restated
Retirement Plan
Materials Park, Ohio

Independent Auditors' Report

We were engaged to audit the accompanying statements of net assets available for benefits of ASM International Revised and Restated Retirement Plan (the Plan) as of May 31, 2011 and 2010 and the related statement of changes in net assets available for benefits for the year ended May 31, 2011 and supplemental schedule as of May 31, 2011. These statements and 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 C, which was certified by the Teachers Insurance and Annuity Association and College Retirement Equities Fund, the custodian 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 custodian holds the Plan's investment assets and executes investment transactions. The plan administrator has obtained certification from the custodian as of and for the years ended May 31, 2011 and 2010, that the information provided to the plan administrator by the custodian is complete and accurate.

Because of the significance of the information in the Plan's financial statements and schedule that we did not audit, we are unable to, and do not, express an opinion on the accompanying financial statements and 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 custodian, has been audited by us in accordance with U.S. generally accepted auditing standards and, in our opinion, is 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.

Hill Barth & King LLC

Certified Public Accountants



OFFICES SERVING CLIENTS IN OHIO, FLORIDA and PENNSYLVANIA
Member American Institute of Certified Public Accountants Division of CPA Firms - Center for Public Company Audit Firms and Private Companies Practice Section

## STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

## ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**May 31, 2011 and 2010**

| | 2011 | 2010 |
|---|---|---|
| **ASSETS** | | |
| Investments at fair value - NOTE C: | | |
| Group annuity contract | $ 6,119,877 | $ 5,140,522 |
| Pooled separate accounts | 205,804 | 171,202 |
| Investment contract with insurance company | 5,991,915 | 6,308,706 |
| **TOTAL ASSETS AVAILABLE FOR BENEFITS AT FAIR VALUE** | 12,317,596 | 11,620,430 |
| **LIABILITIES** | | |
| None | 0 | 0 |
| **NET ASSETS AVAILABLE FOR BENEFITS AT FAIR VALUE** | $ 12,317,596 | $ 11,620,430 |

See accompanying notes to financial statements

## STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

### ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**Year ended May 31, 2011**

| | |
|---|---|
| **ADDITIONS TO NET ASSETS** | |
| Investment income: | |
| Net appreciation in fair value of investments | $ 1,209,808 |
| Interest | 235,641 |
| **TOTAL INVESTMENT INCOME** | 1,445,449 |
| Contributions: | |
| Employer | 358,892 |
| Participant rollovers | 38,081 |
| **TOTAL CONTRIBUTIONS** | 396,973 |
| | 1,842,422 |
| **DEDUCTIONS FROM NET ASSETS** | |
| Benefits paid to participants | 1,145,256 |
| **NET INCREASE IN NET ASSETS AVAILABLE FOR BENEFITS** | 1,842,422 |
| **NET ASSETS AVAILABLE FOR BENEFITS** | |
| Beginning of the year | 11,620,430 |
| End of year | $ 13,462,852 |

See accompanying notes to financial statements

## NOTES TO FINANCIAL STATEMENTS

## ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**May 31, 2011 and 2010**

### NOTE A - DESCRIPTION OF PLAN

The following brief description of ASM International Revised and Restated Retirement Plan (the Plan) provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan's provisions.

General and Eligibility:

The Plan is a defined contribution plan covering all eligible employees of ASM International (the Company). Employees become eligible to participate in the Plan on the first day of the Plan year after reaching 21 years of age and the completion of 1 year of service (1,000 hours per year service requirement). It is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Contributions:

The Company makes contributions to the Plan based upon the participants compensation, as defined by the Plan and age at entry into the Plan. Participants may elect to make voluntary contributions under the Plan subject to certain restrictions. There were no voluntary payroll deferral contributions made in 2011 and 2010.

Participants' Accounts:

Each participant's account is credited with an allocation of the contribution made by the Company and 100% of any voluntary contributions made by the participant. Participants are able to self-direct contributions and reallocate their existing balances among the available investment fund options offered by the Plan.

Vesting:

Participants in the Plan prior to June 1, 2008 were immediately vested in their accounts upon entry into the Plan. Those participants who enter the Plan after June 1, 2008, are vested as follows:

| Years of Vesting Service (Determined by Date of Hire) | Vesting Percentage |
|---|---|
| Less than one year | 0% |
| One year, but less than two years | 25% |
| Two years, but less than three years | 50% |
| Three years | 100% |

Notwithstanding the foregoing, participants become fully vested upon (1) attainment of normal retirement age while an employee of the Company, (2) death while an employee of the Company, or (3) the date of a disability while an employee of the Company.

## NOTE A - DESCRIPTION OF PLAN (CONTINUED)

Payment of Benefits:

Participants are entitled to receive benefits from the Plan at normal retirement age of 62. Upon retirement, participants elect from several annuity options, which provide retirement income for life and under most options provide a death benefit to the participant's beneficiary.

The benefit to which a participant is entitled is the benefit that can be provided from the participant's account.

Forfeitures:

Upon termination of a participant, the employer's matching contributions to which the participant is not 100% vested will be forfeited and such forfeitures will be used to reduce the employer's future contributions. Forfeitures totaled $12,874 and $16,541 for the years ended May 31, 2011 and 2010, respectively.

Administrative Expenses:

Administrative expenses are paid by the Company. Certain administrative functions are performed by officers or employees of the Company. No such officer or employee receives compensation from the Plan.

Plan Termination:

Although it has not expressed any intent to do so, the Company has the right, under the Plan, to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA.

Subsequent Events:

Management evaluated all activity of the Plan through February 18, 2012, the date the financial statements were available to be issued, and concluded that no subsequent events have occurred that would require recognition or disclosure in the financial statements or notes.

## NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting:

The financial statements of the Plan are prepared under the accrual method of accounting.

Investments:

Investments in registered investment companies, pooled separate accounts and money market funds are reported at fair value as determined by the custodian based on quoted market values of the investments underlying the funds or, in the case of registered investment companies, of the fund itself. Investments in insurance contracts are carried at contract value which approximates fair value and is determined by the insurance company.

## NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Investments (Continued):

The Plan presents in the statement of changes in net assets available for benefits the net appreciation (depreciation) in the fair value of its investments, which consists of the realized gains or losses and the unrealized appreciation or depreciation on investments. Purchases and sales of investments are recorded on the trade date basis.

Payments of Benefits:

Benefits are recorded when paid.

Use of Estimates:

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

## NOTE C - INFORMATION CERTIFIED BY THE CUSTODIAN AND FAIR VALUE MEASUREMENTS

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 and as instructed by the plan administrator, no audit procedures have been performed on certain information certified by Teacher Insurance and Annuity Association and College Retirement Equities Fund (TIAA-CREF), the custodian of the Plan, except to compare such information to the information included in the accompanying financial statements and schedule. Information certified by the custodian includes investment amounts included in the statements of net assets available for benefits as of May 31, 2011 and 2010, net appreciation (depreciation) in fair value of investments included in the statement of changes in net assets available for benefits for the year ended May 31, 2011 and all investments and investment transactions included in Note C and the supplement schedule.

## NOTE C - INFORMATION CERTIFIED BY THE CUSTODIAN AND FAIR VALUE MEASUREMENTS (CONTINUED)

The following table presents the fair value of investments at May 31:

| | 2011 | 2010 |
|---|---|---|
| Group annuity contract | $ 6,119,877 | $ 5,140,522 |
| Pooled separate accounts | 205,804 | 171,202 |
| Investment contract with insurance company | 5,991,915 | 6,308,706 |
| TOTALS | $ 12,317,596 | $ 11,620,430 |

The Plan's investments (including investments bought, sold and held during the year appreciated in value as follows:

| | 2011 |
|---|---|
| Net change in fair value: | |
| Group annuity contract | $ 1,173,256 |
| Pooled separate accounts | 36,552 |
| TOTAL | $ 1,209,808 |

The Plan's investments which exceed 5% of net assets available for benefits as of May 31 are as follows:

| | 2011 | 2010 |
|---|---|---|
| CREF Traditional Fund | $ 5,991,915 | $ 6,308,706 |
| CREF Stock Fund | 3,648,264 | 3,084,867 |

## NOTE C - INFORMATION CERTIFIED BY THE CUSTODIAN AND FAIR VALUE MEASUREMENTS (CONTINUED)

FASB ASC 820 requires the Plan to classify its assets and liabilities based on valuation methods using three levels. Level 1 inputs are based on quoted prices in active markets for identical investments. Level 2 inputs are based on significant observable market inputs, such as quoted prices for similar investments and quoted prices in inactive markets. Level 3 inputs are based on significant unobservable inputs that reflect the Plan's determination of assumptions that market participants might reasonably use in valuing the investments. The valuation levels are not necessarily an indication of risk or liquidity associated with the underlying investments.

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of May 31, 2011:

| | Assets at Fair Value | | | |
|---|---|---|---|---|
| | (Level 1) | (Level 2) | (Level 3) | Total |
| Group annuity contract | $ 6,119,877 | $ 0 | $ 0 | $ 6,119,877 |
| Pooled separate accounts | 205,804 | 0 | 0 | 205,804 |
| Investment contract with insurance company | 0 | 0 | 5,991,915 | 5,991,915 |
| TOTAL INVESTMENTS | $ 6,325,681 | $ 0 | $ 5,991,915 | $ 12,317,596 |

## NOTE C - INFORMATION CERTIFIED BY THE CUSTODIAN AND FAIR VALUE MEASUREMENTS (CONTINUED)

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of May 31, 2010:

| | Assets at Fair Value | | | |
|---|---|---|---|---|
| | (Level 1) | (Level 2) | (Level 3) | Total |
| Group annuity contract | $ 5,140,522 | $ 0 | $ 0 | $ 5,140,522 |
| Pooled separate accounts | 171,202 | 0 | 0 | 171,202 |
| Investment contract with insurance company | 0 | 0 | 6,308,706 | 6,308,706 |
| TOTAL INVESTMENTS | $ 5,311,724 | $ 0 | $ 6,308,706 | $ 11,620,430 |

The total market value of the Level 3 investments at May 31, 2010 was $6,308,706, the activity during the year ended May 31, 2011 consisted of contributions in the amount of $71,258, appreciation in the amount of $235,642, net transfers in the amount of $64,055 and distributions paid in the amount of $687,746. The total market value of the Level 3 investments at May 31, 2011 was $5,991,915.

## NOTE D - INVESTMENT CONTRACT WITH INSURANCE COMPANY

The Plan has entered into a benefit-responsive guaranteed annuity investment contract with TIAA-CREF. TIAA-CREF maintains the contributions in a general account. The account is credited with interest at a guaranteed minimum rate of 3% and charged for participant withdrawals. The contract also provides an opportunity for additional earnings, which TIAA-CREF may declare on a year-by-year basis. Contract value, which approximates fair value, represents contributions made under the contract, plus earnings, less participant withdrawals. 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 of the contract insurer or otherwise. The average interest rate was 3.35% to 4.00% for 2011.

## NOTE E - TAX STATUS

The Internal Revenue Service determined and informed the Company by a letter dated April 14, 2009, that the Plan as then designed was designed in accordance with applicable sections of the Internal Revenue Code (IRC).

Accounting principles generally accepted in the United States of America require Plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain tax position that more likely than not would not be sustained upon examination by the applicable taxing authorities. The plan administrator has analyzed the tax positions taken by the Plan, and has concluded that as of May 31, 2011, there are no uncertain tax positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for tax periods in progress. The plan administrator believes it is no longer subject to income tax examinations for years prior to 2008.

## NOTE F - RISKS AND UNCERTAINTIES

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

## NOTE G - RELATED PARTY TRANSACTIONS

Certain Plan investments are shares of annuity funds managed by TIAA-CREF and for which TIAA-CREF receives a fee. As TIAA-CREF is the custodian of the Plan, these transactions qualify as party-in-interest transactions.

**SCHEDULE H, ITEM 4i -**
**SCHEDULE OF ASSETS HELD FOR INVESTMENT PURPOSES**

**ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN**

**EIN: 34-0714532**
**PLAN NUMBER: 001**

**May 31, 2011**

| (a) | (b) IDENTITY OF ISSUE, BORROWER, LESSOR OR SIMILAR PARTY | (c) DESCIPTION OF INVESTMENT | (e) CURRENT VALUE |
|---|---|---|---|
| * | CREF Traditional Fund | Registered Investment Company-Traditional Annuity | $ 5,991,915 |
| * | CREF Stock Fund | Registered Investment Company-Variable Annuity | 3,648,264 |
| * | CREF Social Choice Equity Fund | Registered Investment Company-Variable Annuity | 375,493 |
| * | TIAA-CREF Money Market Fund | Money Market | 199,553 |
| * | CREF Bond Market Fund | Registered Investment Company-Variable Annuity | 397,768 |
| * | CREF Global Equities Fund | Registered Investment Company-Variable Annuity | 390,874 |
| * | CREF Growth Account Fund | Registered Investment Company-Variable Annuity | 498,088 |
| * | CREF Equity Index Fund | Registered Investment Company-Variable Annuity | 380,779 |
| * | CREF Inflation Linked Bond Fund | Registered Investment Company-Variable Annuity | 145,481 |
| * | CREF Access Lifestyle 2015 Fund | Registered Investment Company-Variable Annuity | 565 |
| * | CREF Access Lifestyle 2020 Fund | Registered Investment Company-Variable Annuity | 3,971 |
| * | CREF Access Lifestyle 2025 Fund | Registered Investment Company-Variable Annuity | 317 |
| * | CREF Access Lifestyle 2030 Fund | Registered Investment Company-Variable Annuity | 570 |
| * | CREF Access Lifestyle 2035 Fund | Registered Investment Company-Variable Annuity | 4,729 |
| * | CREF Access Lifestyle Retirement Fund | Registered Investment Company-Variable Annuity | 555 |
| * | CREF Access Bond Plus Fund | Registered Investment Company-Variable Annuity | 536 |
| * | CREF Access Equity Index Fund | Registered Investment Company-Variable Annuity | 12,668 |
| * | CREF Access Growth and Income Fund | Registered Investment Company-Variable Annuity | 1,489 |
| * | CREF Access International Equity Fund | Registered Investment Company-Variable Annuity | 6,604 |
| * | CREF Access Large Cap Growth Fund | Registered Investment Company-Variable Annuity | 3,263 |
| * | CREF Access Midcap Growth Fund | Registered Investment Company-Variable Annuity | 18,455 |
| * | CREF Access Midcap Value Fund | Registered Investment Company-Variable Annuity | 6,903 |
| * | CREF Access Real Estate Fund | Registered Investment Company-Variable Annuity | 2,500 |
| * | CREF Access Small Cap Fund | Registered Investment Company-Variable Annuity | 1,757 |
| * | CREF Access Small Cap Equity | Registered Investment Company-Variable Annuity | 18,695 |
| * | TIAA Real Estate Fund | Pooled Separate Account-Variable Annuity | 205,804 |
| | | | $ 12,317,596 |

* Represents party-in-interest.

| Form 5500 | Annual Return/Report of Employee Benefit Plan | OMB Nos. 1210-0110 1210-0089 |
|---|---|---|
| Department of the Treasury Internal Revenue Service<br>Department of Labor Employee Benefits Security Administration<br>Pension Benefit Guaranty Corporation | 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).<br>▶ **Complete all entries in accordance with the instructions to the Form 5500.** | **2010**<br>**This Form is Open to Public Inspection** |

## Part I Annual Report Identification Information

For calendar plan year 2010 or fiscal plan year beginning 06/01/2010 and ending 05/31/2011

**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
ASM INTERNATIONAL REVISED AND RESTATED RETIREMENT PLAN

**1b** Three-digit plan number (PN) ▶ 001

**1c** Effective date of plan 06/01/1965

**2a** Plan sponsor's name and address (employer, if for a single-employer plan)
(Address should include room or suite no.)
ASM INTERNATIONAL

9639 KINSMAN RD

MATERIALS PARK OH 44073-0001

**2b** Employer Identification Number (EIN) 34-0714532

**2c** Sponsor's telephone number 440-338-5151

**2d** Business code (see instructions) 813000

**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 | Janice Farmwald | 3-6-12 | Janice Farmwald |
| | 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.**

**3a** Plan administrator's name and address (if same as plan sponsor, enter "Same")
ASM INTERNATIONAL

9639 KINSMAN RD

MATERIALS PARK OH 44073-0001

**3b** Administrator's EIN
34-0714532

**3c** Administrator's telephone number
440-338-5151

**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

| | | |
|---|---|---|
| **5** Total number of participants at the beginning of the plan year | **5** | 335 |
| **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** | 145 |
| **b** Retired or separated participants receiving benefits | **6b** | 0 |
| **c** Other retired or separated participants entitled to future benefits | **6c** | 187 |
| **d** Subtotal. Add lines **6a, 6b,** and **6c** | **6d** | 332 |
| **e** Deceased participants whose beneficiaries are receiving or are entitled to receive benefits | **6e** | 0 |
| **f** Total. Add lines **6d** and **6e** | **6f** | 332 |
| **g** Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) | **6g** | 291 |
| **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** | |

**8a** If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:
2C 2G

**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) [X] 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) [X] Insurance
- (2) [ ] Code section 412(e)(3) insurance contracts
- (3) [ ] Trust
- (4) [ ] General assets of the sponsor

**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) [X] **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) [X] **H** (Financial Information)
- (2) [ ] **I** (Financial Information – Small Plan)
- (3) [X] 1 **A** (Insurance Information)
- (4) [X] **C** (Service Provider Information)
- (5) [X] **D** (DFE/Participating Plan Information)
- (6) [ ] **G** (Financial Transaction Schedules)

**SCHEDULE H, ITEM 4i**

**SCHEDULE OF ASSETS HELD**

**SEE AUDITORS' REPORT**