

Form 5500

Annual Return/Report of Employee Benefit Plan

OMB Nos. 1210-0110 1210-0089

2024

This Form is Open to Public Inspection

Department of the Treasury Internal Revenue Service

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 6057(b) and 6058(a) of the Internal Revenue Code (the Code).

Complete all entries in accordance with the instructions to the Form 5500.

Department of Labor Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: a multiemployer plan, a multiple-employer plan, a single-employer plan, a DFE (specify) M, B This return/report is: the first return/report, the final return/report, an amended return/report, a short plan year return/report, 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, E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here

Part II Basic Plan Information—enter all requested information

1a Name of plan: QUAD/GRAPHICS MASTER TRUST
1b Three-digit plan number (PN): 101
1c Effective date of plan
2a Plan sponsor's name (employer, if for a single-employer plan): QUAD/GRAPHICS, INC.
2b Employer Identification Number (EIN): 39-1152983
2c Plan Sponsor's telephone number: 414-566-6000
2d Business code (see instructions)

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.

Table with 4 columns: SIGN HERE, Signature, Date, and Name. Rows include plan administrator, employer/plan sponsor, and DFE.

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2024) v. 240311

3a Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number <div style="background-color: #cccccc; height: 40px; width: 100%;"></div>
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	<div style="background-color: #cccccc; height: 20px; width: 100%;"></div> 6a(1) 6a(2) 6b 6c 6d 6e 6f 6g(1) 6g(2) 6h
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 Characteristics Codes in the instructions:

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

9a Plan funding arrangement (check all that apply) (1) <input type="checkbox"/> Insurance (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts (3) <input type="checkbox"/> Trust (4) <input type="checkbox"/> General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) <input type="checkbox"/> Insurance (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts (3) <input type="checkbox"/> Trust (4) <input type="checkbox"/> 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) <input type="checkbox"/> R (Retirement Plan Information) (2) <input type="checkbox"/> MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) <input type="checkbox"/> SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary (4) <input type="checkbox"/> DCG (Individual Plan Information) – Number Attached _____ (5) <input type="checkbox"/> MEP (Multiple-Employer Retirement Plan Information)	b General Schedules (1) <input checked="" type="checkbox"/> H (Financial Information) (2) <input type="checkbox"/> I (Financial Information – Small Plan) (3) <input checked="" type="checkbox"/> A (Insurance Information) – Number Attached <u> 1 </u> (4) <input checked="" type="checkbox"/> C (Service Provider Information) (5) <input checked="" type="checkbox"/> D (DFE/Participating Plan Information) (6) <input type="checkbox"/> G (Financial Transaction Schedules)
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Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) Yes No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) Yes No

11c Enter the Receipt Confirmation Code for the 2024 Form M-1 annual report. If the plan was not required to file the 2024 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

**SCHEDULE A
(Form 5500)**

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration
Pension Benefit Guaranty Corporation

Insurance 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.**

▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).

OMB No. 1210-0110

2024

This Form is Open to Public Inspection

For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

A Name of plan QUAD/GRAPHICS MASTER TRUST	B Three-digit plan number (PN) ▶ 101
C Plan sponsor's name as shown on line 2a of Form 5500 QUAD/GRAPHICS, INC.	D Employer Identification Number (EIN) 39-1152983

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
PRINCIPAL LIFE INSURANCE COMPANY

(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
42-0127290	0	0	13883	01/01/2024	12/31/2024

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 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
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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		(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	

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

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(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	
5 Current value of plan's interest under this contract in separate accounts at year end.....	5	10790449

6 Contracts With Allocated Funds:

- a** State the basis of premium rates ▶

- b** Premiums paid to carrier
- c** Premiums due but unpaid at the end of the year
- 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.
Specify nature of costs ▶

- e** Type of contract: (1) 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) guaranteed investment (4) other ▶

b Balance at the end of the previous year			7b	
c Additions: (1) Contributions deposited during the year	7c(1)			
	7c(2)			
	7c(3)			
	7c(4)			
	7c(5)			
	(6) Total additions			
d Total of balance and additions (add lines 7b and 7c(6))			7d	
e Deductions:				
	7e(1)			
	7e(2)			
	7e(3)			
	7e(4)			
(5) Total deductions		7e(5)		
f Balance at the end of the current year (subtract line 7e(5) from line 7d).....			7f	

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 organizations(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)
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)
	(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)
	(2) Dividends or retroactive rate refunds. (These amounts were <input type="checkbox"/> paid in cash, or <input type="checkbox"/> 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 line 9c(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, line 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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

A Name of plan QUAD/GRAPHICS MASTER TRUST	B Three-digit plan number (PN) ▶	101
C Plan sponsor's name as shown on line 2a of Form 5500 QUAD/GRAPHICS, INC.	D Employer Identification Number (EIN) 39-1152983	

Part I Service Provider Information (see instructions)

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

1 Information on Persons Receiving Only Eligible Indirect Compensation

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

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

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

PRINCIPAL CUSTODY SOLUTIONS

51-0099493

(b) Enter name and EIN or address of person who provided you disclosures 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)

PRINCIPAL CUSTODY SOLUTIONS

51-0099493

(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?
18 21 52 62 63 64	TRUSTEE	0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

(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 <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

(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 <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small>	DFE/Participating Plan 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 <hr/> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A Name of plan <u>QUAD/GRAPHICS MASTER TRUST</u>	B Three-digit plan number (PN) ▶	<u>101</u>
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>QUAD/GRAPHICS, INC.</u>	D Employer Identification Number (EIN) <u>39-1152983</u>	

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)
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a Name of MTIA, CCT, PSA, or 103-12 IE: <u>PRINCIPAL U.S. PROPERTY SEPARATE</u>				
b Name of sponsor of entity listed in (a): <u>PRINCIPAL LIFE INSURANCE COMPANY</u>				
c EIN-PN <u>42-0127290-027</u>	d Entity code <u>P</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	<u>10790449</u>	
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>VONTOBEL INTERNATIONAL EQUITY FUND</u>				
b Name of sponsor of entity listed in (a): <u>GREATBANC TRUST COMPANY</u>				
c EIN-PN <u>30-6318017-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	<u>28908626</u>	
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>PUTNAM STABLE VALUE 25 BPS</u>				
b Name of sponsor of entity listed in (a): <u>PUTNAM FIDUCIARY TRUST COMPANY</u>				
c EIN-PN <u>04-3159710-002</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	<u>129475936</u>	
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>MORLEY STABLE VALUE FUND</u>				
b Name of sponsor of entity listed in (a): <u>UNION BOND & TRUST COMPANY</u>				
c EIN-PN <u>93-6274329-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	<u>114671917</u>	
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>JPMCB CORE DIVERSIFIED COMMERCIAL</u>				
b Name of sponsor of entity listed in (a): <u>JP MORGAN</u>				
c EIN-PN <u>26-1397584-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	<u>30343930</u>	
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>PIMCO TOTAL RETURN FD-INST</u>				
b Name of sponsor of entity listed in (a): <u>SEI TRUST COMPANY</u>				
c EIN-PN <u>27-0834899-035</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	<u>124284546</u>	
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>INVESCO EMERGING MARKETS EQUITY A</u>				
b Name of sponsor of entity listed in (a): <u>INVESCO TRUST COMPANY</u>				
c EIN-PN <u>51-0423349-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	<u>23359274</u>	

a Name of MTIA, CCT, PSA, or 103-12 IE: HARRIS ASSOCIATES COLLECTIVE TRUST

b Name of sponsor of entity listed in (a): SEI TRUST COMPANY

c EIN-PN 26-4757392-037	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 32185154
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a Name of MTIA, CCT, PSA, or 103-12 IE: CONESTOGA SMALL CAP GROWTH CLASS A

b Name of sponsor of entity listed in (a): COMERICA BANK & TRUST, NATIONAL ASSOCIATION

c EIN-PN 82-6178890-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 16518902
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a Name of MTIA, CCT, PSA, or 103-12 IE: NT COLLECTIVE SHORT TERM INVT FD

b Name of sponsor of entity listed in (a): NORTHERN TRUST INVESTMENTS, INC.

c EIN-PN 45-6138589-084	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 14830367
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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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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, other than DCGs)
(Complete as many entries as needed to report all participating plans. DCGs must report each participating plan using Schedule DCG.)

a Plan name	QUAD/GRAPHICS INC ESOP	
b Name of plan sponsor	QUAD/GRAPHICS INC	c EIN-PN 39-1152983-005

a Plan name	QUAD/GRAPHICS DIVERSIFIED PLAN	
b Name of plan sponsor	QUAD/GRAPHICS INC	c EIN-PN 39-1152983-003

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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024	
A Name of plan QUAD/GRAPHICS MASTER TRUST	B Three-digit plan number (PN) ▶ 101
C Plan sponsor's name as shown on line 2a of Form 5500 QUAD/GRAPHICS, INC.	D Employer Identification Number (EIN) 39-1152983

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.

	(a) Beginning of Year	(b) End of Year
Assets		
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)	224193
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)	698839
(B) Common	1c(4)(B)	446775156
(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)	514578652
(10) Value of interest in pooled separate accounts	1c(10)	10790449
(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)	1062618006
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)	
(15) Other	1c(15)	

		(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:		
(1)	Employer securities.....	15629054	17358594
(2)	Employer real property.....		
e	Buildings and other property used in plan operation.....		
f	Total assets (add all amounts in lines 1a through 1e).....	2031291128	2052819696
Liabilities			
g	Benefit claims payable.....		
h	Operating payables.....		
i	Acquisition indebtedness.....		
j	Other liabilities.....		395505
k	Total liabilities (add all amounts in lines 1g through 1j).....	0	395505
Net Assets			
l	Net assets (subtract line 1k from line 1f).....	2031291128	2052424191

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.

		(a) Amount	(b) Total
Income			
a	Contributions:		
(1)	Received or receivable in cash from: (A) Employers.....	2a(1)(A)	
	(B) Participants.....	2a(1)(B)	
	(C) Others (including rollovers).....	2a(1)(C)	
(2)	Noncash contributions.....	2a(2)	
(3)	Total contributions. Add lines 2a(1)(A), (B), (C), and line 2a(2).....	2a(3)	0
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)	
	(G) Total interest. Add lines 2b(1)(A) through (F).....	2b(1)(G)	799625
(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)	
(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)	
(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)	

	(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)	65553530
(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)	43194297
c Other income	2c	41930
d Total income. Add all income amounts in column (b) and enter total.....	2d	245130155

Expenses

e Benefit payment and payments to provide benefits:		
(1) Directly to participants or beneficiaries, including direct rollovers.....	2e(1)	
(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)	0
f Corrective distributions (see instructions)	2f	
g Certain deemed distributions of participant loans (see instructions).....	2g	
h Interest expense.....	2h	
i Administrative expenses:		
(1) Salaries and allowances	2i(1)	
(2) Contract administrator fees	2i(2)	
(3) Recordkeeping fees	2i(3)	
(4) IQPA audit fees	2i(4)	
(5) Investment advisory and investment management fees	2i(5)	
(6) Bank or trust company trustee/custodial fees	2i(6)	
(7) Actuarial fees	2i(7)	
(8) Legal fees	2i(8)	
(9) Valuation/appraisal fees	2i(9)	
(10) Other trustee fees and expenses	2i(10)	
(11) Other expenses.....	2i(11)	
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)	0
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j	0

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d.....	2k	245130155
l Transfers of assets:		
(1) To this plan.....	2l(1)	358378594
(2) From this plan	2l(2)	582375686

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) Unmodified (2) Qualified (3) Disclaimer (4) Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) DOL Regulation 2520.103-8 (2) DOL Regulation 2520.103-12(d) (3) neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

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

(1) Name:

(2) EIN:

d The opinion of an independent qualified public accountant is **not attached** as part of Schedule H because:

(1) This form is filed for a CCT, PSA, DCG 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 lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

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.)			
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?			
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?			
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?			
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?			
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?			
l Has the plan failed to provide any benefit when due under the plan?			
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
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? Yes No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

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)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) Yes No Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

QUAD/GRAPHICS MASTER TRUST
EMPLOYER IDENTIFICATION NUMBER 39-1152983 PLAN 101
Form 5500, Schedule H, Line 4i
SCHEDULE OF ASSETS HELD AT END OF YEAR
DECEMBER 31, 2024

Party in (a) interest	(b) Identity of issue	(c) Description of Investment	(d) Cost	(e) Current Value
	3M CO	COMMON STOCK	\$	865,678
	AAON INC	COMMON STOCK	\$	793,634
	ABACUS LIFE INC CL A	COMMON STOCK	\$	34,765
	ABBOTT LABS	COMMON STOCK	\$	2,738,959
	ABERCROMBIE & FITCH CO CL A	COMMON STOCK	\$	229,885
	ACCENTURE PLC	COMMON STOCK	\$	2,373,879
	ACCO BRANDS CORP	COMMON STOCK	\$	103,100
	ADDUS HOMECARE CORP	COMMON STOCK	\$	561,693
	ADMA BIOLOGICS INC	COMMON STOCK	\$	641,341
	ADOBE INC	COMMON STOCK	\$	2,616,497
	ADTALEM GLOBAL EDUCATION INC	COMMON STOCK	\$	166,891
	ADVANCED DRAINAGE SYSTEMS INC	COMMON STOCK	\$	533,841
	AEROVIRONMENT INC	COMMON STOCK	\$	66,480
	AGILENT TECHNOLOGIES INC	COMMON STOCK	\$	332,492
	AGNC INVESTMENT CORP	COMMON STOCK	\$	214,317
	AGREE RLTY CORP COM	COMMON STOCK	\$	141,182
	AIR LEASE CORP	COMMON STOCK	\$	726,766
	AIRBNB INC	COMMON STOCK	\$	2,206,111
	ALAMO GROUP INC COM	COMMON STOCK	\$	352,671
	ALARM.COM HOLDINGS INC	COMMON STOCK	\$	368,509
	ALEXANDRIA REAL ESTATE EQUITIES	COMMON STOCK	\$	79,893
	ALIGHT INC	COMMON STOCK	\$	34,759
	ALIGN TECHNOLOGY INC	COMMON STOCK	\$	556,930
	ALKAMI TECHNOLOGY INC	COMMON STOCK	\$	433,154
	ALLEGION PUBLIC LIMITED COMPANY	COMMON STOCK	\$	972,782
	ALLIENT INC	COMMON STOCK	\$	345,796
	ALLSTATE CORP	COMMON STOCK	\$	252,555
	ALPHABET INC CL A	COMMON STOCK	\$	2,606,661
	ALPHABET INC CL C	COMMON STOCK	\$	4,553,040
	AMAZON COM INC COM	COMMON STOCK	\$	12,355,167
	AMDOCS LIMITED COM	COMMON STOCK	\$	2,391,583
	AMERICAN EXPRESS CO	COMMON STOCK	\$	2,481,164
	AMERICAN HOMES 4 RENT CL A REIT	COMMON STOCK	\$	385,763
	AMERICAN WATER WORKS CO INC/NE	COMMON STOCK	\$	253,835
	AMERIPRISE FINL INC	COMMON STOCK	\$	1,607,939
	AMERIS BANCORP	COMMON STOCK	\$	671,814
	AMETEK INC COM	COMMON STOCK	\$	305,541
	AMGEN INC	COMMON STOCK	\$	1,905,278
	AMPHENOL CORP CL A	COMMON STOCK	\$	1,204,888
	ANSYS INC	COMMON STOCK	\$	289,766
	API GROUP CORP	COMMON STOCK	\$	602,282
	APOLLO GLOBAL MANAGEMENT INC	COMMON STOCK	\$	671,375
	APPLE INC	COMMON STOCK	\$	5,094,294
	APPLIED INDL TECHNOLOGIES INC COM	COMMON STOCK	\$	280,659
	APPLIED METERIALS INC	COMMON STOCK	\$	78,225
	APPLOVIN CORP	COMMON STOCK	\$	735,418
	APTARGROUP INC COM	COMMON STOCK	\$	594,309
	ARAMARK	COMMON STOCK	\$	2,349,896
	ARCH CAPITAL GROUP LTD	COMMON STOCK	\$	555,485
	ARCH RESOURCES INC	COMMON STOCK	\$	39,259

ARDENT HEALTH PARTNERS LLC	COMMON STOCK	\$	41,368
ARES MANAGEMENT CORP-A	COMMON STOCK	\$	487,718
ARGAN INC	COMMON STOCK	\$	991,347
ARGENX SE-ADR	COMMON STOCK	\$	628,530
ARHAUS INC	COMMON STOCK	\$	116,363
ARISTA NETWORKS INC	COMMON STOCK	\$	1,530,730
ARMSTRONG WORLD INDUSTRIES INC	COMMON STOCK	\$	181,044
ARROW ELECTRS INC	COMMON STOCK	\$	818,536
ARTIVION INC	COMMON STOCK	\$	138,004
ASHLAND INC	COMMON STOCK	\$	502,292
ASSOCIATED BANC CORP	COMMON STOCK	\$	153,605
ATKORE INC	COMMON STOCK	\$	672,106
ATLANTIC UNION BANKSHARES CORP	COMMON STOCK	\$	90,041
ATMUS FILTRATION TECHNOLOGIES	COMMON STOCK	\$	97,441
ATRICURE INC	COMMON STOCK	\$	240,599
AUDIOEYE INC	COMMON STOCK	\$	44,520
AUTOZONE INC	COMMON STOCK	\$	1,159,124
AVANTOR INC	COMMON STOCK	\$	343,020
AVEPOINT INC	COMMON STOCK	\$	353,496
AVERY DENNISON CORP	COMMON STOCK	\$	1,485,625
AVIENT CORP	COMMON STOCK	\$	455,630
AVISTA CORP	COMMON STOCK	\$	348,608
AXIS CAPITAL HOLDINGS LTD	COMMON STOCK	\$	934,143
AXOGEN, INC.	COMMON STOCK	\$	86,504
AXON ENTERPRISE INC	COMMON STOCK	\$	3,310,957
AXSOME THERAPEUTICS INC	COMMON STOCK	\$	90,956
AZEK CO INC/THE	COMMON STOCK	\$	910,807
AZENTA INC	COMMON STOCK	\$	606,900
BARRETT BUSINESS SVCS INC	COMMON STOCK	\$	92,397
BEACON ROOFING SUPPLY INC	COMMON STOCK	\$	615,676
BECTON DICKINSON & CO	COMMON STOCK	\$	85,984
BEIERSDORF AG	COMMON STOCK	\$	82,030
BELDEN INC	COMMON STOCK	\$	346,276
BELLRING BRANDS INC	COMMON STOCK	\$	419,267
BENTLEY SYSTEMS INC	COMMON STOCK	\$	178,487
BERKSHIRE HATHAWAY INC.	COMMON STOCK	\$	1,840,770
BERRY PETROLEUM CORP	COMMON STOCK	\$	35,159
BERRY PLASTICS GROUP INC	COMMON STOCK	\$	172,604
BEST BUY INC	COMMON STOCK	\$	296,010
BIO RAD LABS INC CL A	COMMON STOCK	\$	593,618
BIOGEN INC	COMMON STOCK	\$	1,584,251
BIOLIFE SOLUTIONS, INC.	COMMON STOCK	\$	115,885
BIO-TECHNE CORP	COMMON STOCK	\$	475,902
BJ'S WHOLESALE CLUB HOLDINGS	COMMON STOCK	\$	836,316
BLACKLINE INC	COMMON STOCK	\$	104,082
BLACKROCK INC	COMMON STOCK	\$	2,268,568
BLEND LABS INC CL A	COMMON STOCK	\$	171,183
BLOOM ENERGY CORP	COMMON STOCK	\$	121,333
BLUE OWL CAPITAL INC CL A	COMMON STOCK	\$	353,552
BOK FINANCIAL CORPORATION	COMMON STOCK	\$	75,154
BOOKING HOLDINGS INC	COMMON STOCK	\$	3,229,473
BOOT BARN HOLDINGS INC	COMMON STOCK	\$	499,032
BOSTON SCIENTIFIC CORP COM	COMMON STOCK	\$	916,066
BOWMAN CONSULTING GROUP LTD	COMMON STOCK	\$	205,738
BOX INC	COMMON STOCK	\$	652,793
BOYD GAMING CORP COM	COMMON STOCK	\$	45,773
BRIGHTVIEW HOLDINGS, INC.	COMMON STOCK	\$	160,140
BROADCOM INC	COMMON STOCK	\$	1,266,310

BROADRIDGE FINANCIAL SOLUTIONS	COMMON STOCK	\$	635,313
BRUKER CORPORATION	COMMON STOCK	\$	739,784
BUILDERS FIRSTSOURCE INC	COMMON STOCK	\$	282,287
BUMBLE INC	COMMON STOCK	\$	161,148
BURLINGTON STORES INC	COMMON STOCK	\$	1,181,289
BUTTERFLY NETWORK INC CL A	COMMON STOCK	\$	70,930
BWX TECHNOLOGIES INC	COMMON STOCK	\$	318,575
C3.AI INC	COMMON STOCK	\$	202,276
CACI INTL INC FORMERLY CACI INC TO	COMMON STOCK	\$	367,695
CADENCE DESIGN SYSTEMS INC	COMMON STOCK	\$	2,066,263
CALAVO GROWERS INC	COMMON STOCK	\$	426,003
CALIFORNIA WTR SVC GROUP COM	COMMON STOCK	\$	743,231
CAREDX INC	COMMON STOCK	\$	136,296
CARLISLE COS INC	COMMON STOCK	\$	2,104,970
CARLYLE GROUP INC/THE	COMMON STOCK	\$	888,624
CARMAX INC	COMMON STOCK	\$	1,328,436
CARNIVAL CORP	COMMON STOCK	\$	977,238
CARPENTER TECHNOLOGY CORP	COMMON STOCK	\$	420,032
CARRIER GLOBAL CORP	COMMON STOCK	\$	1,310,251
CARVANA CO	COMMON STOCK	\$	600,522
CASELLA WASTE SYS INC CL A	COMMON STOCK	\$	406,734
CBIZ INC	COMMON STOCK	\$	716,013
CBOE GLOBAL MARKETS, INC.	COMMON STOCK	\$	313,226
CCC INTELLIGENT SOLUTIONS HLD	COMMON STOCK	\$	997,660
CDW CORP/DE	COMMON STOCK	\$	1,102,021
CECO ENVIRONMENTAL CORP	COMMON STOCK	\$	239,482
CELESTIVA INC	COMMON STOCK	\$	289,084
CELLEBRITE DI LTD	COMMON STOCK	\$	481,223
CENCORA, INC.	COMMON STOCK	\$	626,857
CENTRAL GARDEN & PET CO COM	COMMON STOCK	\$	115,818
CENTRAL GARDEN AND PET CO	COMMON STOCK	\$	195,458
CHARLES RIVER LABORATORIES	COMMON STOCK	\$	255,486
CHORD ENERGY CORPORATION	COMMON STOCK	\$	559,813
CHUBB LIMITED	COMMON STOCK	\$	1,652,274
CHURCH & DWIGHT INC	COMMON STOCK	\$	996,839
CIENA CORP USD 0.01	COMMON STOCK	\$	288,354
CLEARWATER ANALYTICS HLDGS INC	COMMON STOCK	\$	280,979
CLOROX CO	COMMON STOCK	\$	606,601
CNH INDUSTRIES NV	COMMON STOCK	\$	189,381
CNO FINANCIAL GROUP INC	COMMON STOCK	\$	74,829
COGENT COMMUNICATIONS HOLDINGS,INC	COMMON STOCK	\$	460,185
COGNEX CORP	COMMON STOCK	\$	70,824
COHERENT CORP	COMMON STOCK	\$	151,284
COLUMBUS MCKINNON CORP N Y	COMMON STOCK	\$	106,842
COMCAST CORP CLASS A	COMMON STOCK	\$	2,317,102
COMERICA INC	COMMON STOCK	\$	631,179
COMMERCIAL METALS CO	COMMON STOCK	\$	357,715
COMMVAULT SYSTEMS INC	COMMON STOCK	\$	619,335
COMPASS DIVERSIFIED HOLDINGS RR.	COMMON STOCK	\$	317,096
COMPOSECURE INC CL A	COMMON STOCK	\$	463,395
CONFLUENT INC	COMMON STOCK	\$	368,681
CONMED CORP	COMMON STOCK	\$	48,729
CONSTRUCTION PARTNERS INC	COMMON STOCK	\$	564,375
COOPER COS INC COM NEW	COMMON STOCK	\$	281,214
COPART INC COM	COMMON STOCK	\$	1,103,839
CORCEPT THERAPEUTICS INC	COMMON STOCK	\$	260,617
CORE & MAIN INC	COMMON STOCK	\$	1,304,365
CORE SCIENTIFIC INC	COMMON STOCK	\$	98,870

CORPORATION AMER ARPTS SA	COMMON STOCK	\$	102,499
COSTAR GROUP, INC	COMMON STOCK	\$	1,566,819
CRANE HOLDINGS CO	COMMON STOCK	\$	584,845
CRANE NXT CO	COMMON STOCK	\$	244,175
CREDO TECHNOLOGY GROUP HOLDING	COMMON STOCK	\$	476,586
CRINETICS PHARMACEUTICALS INC	COMMON STOCK	\$	72,605
CROWN HLDGS INC	COMMON STOCK	\$	450,826
CSW INDUSTRIALS INC	COMMON STOCK	\$	89,611
CSX CORP	COMMON STOCK	\$	1,074,171
CTS CORP	COMMON STOCK	\$	592,422
CUBESMART	COMMON STOCK	\$	344,471
CUMMINS INC.	COMMON STOCK	\$	1,324,680
CUSHMAN & WAKEFIELD PLC	COMMON STOCK	\$	1,233,562
CUSTOM TRUCK ONE SOURCE INC	COMMON STOCK	\$	64,214
CVRX INC	COMMON STOCK	\$	39,556
CYBER-ARK SOFTWARE LTD/ISRAE	COMMON STOCK	\$	1,135,708
D R HORTON INC COM	COMMON STOCK	\$	307,604
DAINKIN INDUSTRIES LTD.	COMMON STOCK	\$	81,188
DATADOG INC	COMMON STOCK	\$	589,278
DAVE INC CL A	COMMON STOCK	\$	71,883
DECKERS OUTDOOR CORP	COMMON STOCK	\$	997,375
DENNYS CORP	COMMON STOCK	\$	110,219
DENTSPLY SIRONA INC	COMMON STOCK	\$	2,463,186
DESPEGAR.COM CORP	COMMON STOCK	\$	311,696
DEXCOM INC	COMMON STOCK	\$	275,928
DICKS SPORTING GOODS INC	COMMON STOCK	\$	356,990
DIEBOLD NIXDORF INC	COMMON STOCK	\$	98,691
DINE BRANDS GLOBAL, INC.	COMMON STOCK	\$	19,866
DIODES INC	COMMON STOCK	\$	38,667
DOLLAR GENERAL CORP	COMMON STOCK	\$	641,112
DOMINOS PIZZA INC	COMMON STOCK	\$	625,442
DONALDSON CO INC	COMMON STOCK	\$	693,772
DOORDASH INC	COMMON STOCK	\$	1,596,980
DORMAN PRODUCTS INC	COMMON STOCK	\$	318,434
DOUBLEVERIFY HOLDINGS INC	COMMON STOCK	\$	156,235
DOUGLAS DYNAMICS INC	COMMON STOCK	\$	180,486
DRAFTKINGS INC CL A	COMMON STOCK	\$	310,918
DUN & BRADSTREET HOLDINGS IN	COMMON STOCK	\$	530,784
DXP ENTERPRISES INC	COMMON STOCK	\$	44,036
DYNATRACE INC	COMMON STOCK	\$	526,054
E2OPEN PARENT HOLDINGS INC	COMMON STOCK	\$	29,361
EAGLE MATLS INC	COMMON STOCK	\$	537,443
EASTGROUP PPTYS INC COM	COMMON STOCK	\$	1,247,810
EATON CORP PLC	COMMON STOCK	\$	529,665
EBAY INC	COMMON STOCK	\$	2,494,107
ECOVYST INC	COMMON STOCK	\$	119,268
EDGEWELL PERSONAL CARE CO	COMMON STOCK	\$	317,654
ELASTIC N.V.	COMMON STOCK	\$	64,303
ELF BEAUTY INC	COMMON STOCK	\$	83,365
ELI LILLY & CO COM	COMMON STOCK	\$	2,198,656
ELME COMMUNITIES REIT	COMMON STOCK	\$	103,729
EMBRAER SA	COMMON STOCK	\$	689,511
EMCOR GROUP INC COM	COMMON STOCK	\$	699,460
EMPRESA DISTRIBUIDORA SPONSORED	COMMON STOCK	\$	210,817
ENCOMPASS HEALTH CORP	COMMON STOCK	\$	589,562
ENNIS INC	COMMON STOCK	\$	105,598
ENTEGRIS INC	COMMON STOCK	\$	335,417
ENVISTA HOLDINGS CORP	COMMON STOCK	\$	974,184

EPAM SYSTEMS INC	COMMON STOCK	\$	319,164
ESSENT GROUP LTD	COMMON STOCK	\$	411,131
ESTEE LAUDER COMPANIES INC	COMMON STOCK	\$	2,355,047
EURONET WORLDWIDE INC.	COMMON STOCK	\$	139,348
EVEREST GROUP LTD	COMMON STOCK	\$	87,353
EVERUS CONSTRUCTION GROUP INC	COMMON STOCK	\$	126,832
EVOLENT HEALTH INC	COMMON STOCK	\$	48,521
EXLSERVICE HOLDINGS INC	COMMON STOCK	\$	467,100
EXTRA SPACE STORAGE INC	COMMON STOCK	\$	284,240
EXTREME NETWORKS INC	COMMON STOCK	\$	150,710
FABRINET	COMMON STOCK	\$	230,874
FAIR ISSAC, INC	COMMON STOCK	\$	678,907
FERGUSON PLC	COMMON STOCK	\$	1,536,615
FIRST AMERICAN FINANCIAL	COMMON STOCK	\$	475,668
FIRST HAWAIIAN INC	COMMON STOCK	\$	50,992
FIRSTCASH HLDGS INC	COMMON STOCK	\$	641,698
FIRSTSERVICE CORPORATION	COMMON STOCK	\$	411,639
FISERV INC	COMMON STOCK	\$	1,064,486
FIVE BELOW INC	COMMON STOCK	\$	261,455
FIVE9 INC	COMMON STOCK	\$	194,625
FLOWSERVE CORP COM	COMMON STOCK	\$	1,419,306
FLUOR CORP NEW	COMMON STOCK	\$	120,883
FOOT LOCKER INC	COMMON STOCK	\$	47,589
FORMFACTOR INC	COMMON STOCK	\$	339,856
FORTUNE BRANDS INNOVATIONS INC	COMMON STOCK	\$	809,301
FORUM ENERGY TECHNOLOGIES INC	COMMON STOCK	\$	15,490
FRANKLIN ELEC INC COM	COMMON STOCK	\$	616,956
FRESENIUS MEDICAL CARE AG SPONS ADR	COMMON STOCK	\$	847,370
FRESHPET INC	COMMON STOCK	\$	461,215
FRONTDOOR INC	COMMON STOCK	\$	169,040
FTAI AVIATION LTD	COMMON STOCK	\$	633,344
GARTNER INC	COMMON STOCK	\$	2,040,588
GATES INDUSTRIAL CORP PLC	COMMON STOCK	\$	949,059
GE AEROSPACE	COMMON STOCK	\$	818,605
GE VERNOVA LLC	COMMON STOCK	\$	516,420
GEN DIGITAL INC.	COMMON STOCK	\$	2,653,396
GENEDX HOLDINGS CORP CL A	COMMON STOCK	\$	1,297,858
GENERAC HOLDINGS INC	COMMON STOCK	\$	95,201
GENIUS SPORTS LTD	COMMON STOCK	\$	238,031
GENPACT LTD	COMMON STOCK	\$	1,041,237
GENTEX CORP	COMMON STOCK	\$	1,090,016
GENTHERM INC.	COMMON STOCK	\$	468,400
GLASSBRIDGE ENTERPRISES INC	COMMON STOCK	\$	1,024
GLOBAL PMTS INC W/I	COMMON STOCK	\$	301,329
GLOBAL-E ONLINE LTD	COMMON STOCK	\$	292,117
GLOBE LIFE INC	COMMON STOCK	\$	1,437,381
GLOBUS MEDICAL INC - A	COMMON STOCK	\$	308,343
GRACO INC	COMMON STOCK	\$	337,666
GRAND CANYON EDUCATION INC	COMMON STOCK	\$	115,970
GREEN BRICK PARTNERS INC	COMMON STOCK	\$	174,215
GRID DYNAMICS HOLDINGS INC	COMMON STOCK	\$	475,291
GRIFFON CORP COM	COMMON STOCK	\$	67,707
GUARDIAN PHARMACY SERVICES INC CL A	COMMON STOCK	\$	51,744
HAEMONETICS CORP MASS	COMMON STOCK	\$	533,521
HAIN CELESTIAL GROUP INC	COMMON STOCK	\$	297,322
HANCOCK WHITNEY CORP	COMMON STOCK	\$	331,932
HANOVER INS GROUP INC	COMMON STOCK	\$	369,637
HARLEY DAVIDSON INC	COMMON STOCK	\$	1,423,341

HARROW INC	COMMON STOCK	\$	47,071
HAYWARD HOLDINGS INC	COMMON STOCK	\$	635,452
HCI GROUP INC	COMMON STOCK	\$	346,211
HCP, INC.	COMMON STOCK	\$	167,896
HEALTHEQUITY INC	COMMON STOCK	\$	2,053,138
HEICO CORP CL A	COMMON STOCK	\$	859,504
HELIOS TECHNOLOGIES INC	COMMON STOCK	\$	483,228
HENKEL AG AND CO. KGAA ADR	COMMON STOCK	\$	1,617,755
HERC HOLDINGS INC	COMMON STOCK	\$	612,483
HILLMAN SOLUTIONS CORP	COMMON STOCK	\$	425,560
HILTON WORLDWIDE HOLDINGS IN	COMMON STOCK	\$	808,213
HOLLEY INC	COMMON STOCK	\$	67,926
HOLOGIC INC COM	COMMON STOCK	\$	85,643
HOULIHAN LOKEY INC	COMMON STOCK	\$	976,490
HUBBELL INCORPORATED	COMMON STOCK	\$	427,268
HUBSPOT INC	COMMON STOCK	\$	627,790
HUMANA INC	COMMON STOCK	\$	246,352
HUNT J B TRANS SVCS INC	COMMON STOCK	\$	83,111
HUNTSMAN CORP	COMMON STOCK	\$	90,204
IDACORP INC	COMMON STOCK	\$	508,589
IDEX CORP	COMMON STOCK	\$	912,086
IDEXX CORP	COMMON STOCK	\$	524,655
IES HOLDINGS INC	COMMON STOCK	\$	284,961
IMAX CORP COM	COMMON STOCK	\$	42,470
IMPINJ INC	COMMON STOCK	\$	109,236
INDEPENDENT BK CORP MASS COM	COMMON STOCK	\$	79,082
INGERSOLL-RAND INC	COMMON STOCK	\$	398,024
INGRAM ENTERPRISES INC COM	COMMON STOCK	\$	53,303
INNODATA INC	COMMON STOCK	\$	31,300
INNOSPEC INC	COMMON STOCK	\$	661,351
INOTIV INC	COMMON STOCK	\$	37,157
INSIGHT ENTERPRISES INC COM	COMMON STOCK	\$	635,778
INSMED INC	COMMON STOCK	\$	98,313
INTEGER HOLDINGS CORP	COMMON STOCK	\$	453,351
INTERCONTINENTAL EXCHANGE, INC	COMMON STOCK	\$	620,180
INTERNATIONAL PAPER CO	COMMON STOCK	\$	449,074
INTERPUBLIC GROUP COS INC	COMMON STOCK	\$	1,558,472
INTRA-CELLULAR THERAPIES INC	COMMON STOCK	\$	123,108
INTUIT COM	COMMON STOCK	\$	566,279
INTUITIVE SURGICAL INC	COMMON STOCK	\$	869,063
IRADIMED CORP	COMMON STOCK	\$	74,415
IRSA SPONSORED	COMMON STOCK	\$	1,165
ITRON INC COM	COMMON STOCK	\$	188,278
J & J SNACK FOODS CORP	COMMON STOCK	\$	654,183
JACK IN THE BOX, INC.	COMMON STOCK	\$	98,395
JANUS INTERNATIONAL GROUP INC	COMMON STOCK	\$	75,536
JDE PEETS NV UNSPONSORED	COMMON STOCK	\$	166,685
JOBY AVIATION INC	COMMON STOCK	\$	80,089
KELLANOVA	COMMON STOCK	\$	714,965
KEMPER CORP	COMMON STOCK	\$	396,315
KEYSIGHT TECHNOLOGIES INC	COMMON STOCK	\$	782,107
KIMBERLY CLARK CORP COM	COMMON STOCK	\$	2,940,407
KINSALE CAPITAL GROUP INC	COMMON STOCK	\$	513,504
KIRBY CORP	COMMON STOCK	\$	420,872
KKR & CO. INC.	COMMON STOCK	\$	996,026
KNIFE RIVER CORP	COMMON STOCK	\$	118,716
KNIGHT-SWIFT TRANSPORTATION HOLDINGS	COMMON STOCK	\$	674,351
KNOWLES CORP	COMMON STOCK	\$	302,677

KONINKLIJKE PHILIPS N.V.	COMMON STOCK	\$	918,154
KORN FERRY	COMMON STOCK	\$	287,809
KORU MEDICAL SYSTEMS INC	COMMON STOCK	\$	33,822
KRATOS DEFENSE & SECURITY SOLUTIONS	COMMON STOCK	\$	182,602
KRYSTAL BIOTECH INC	COMMON STOCK	\$	62,821
KURA SUSHI USA INC CL A	COMMON STOCK	\$	113,134
KYNDRYL HOLDINGS INC	COMMON STOCK	\$	235,591
LAM RESEARCH CORPORATION	COMMON STOCK	\$	82,992
LATHAM GROUP INC	COMMON STOCK	\$	56,905
LAZARD INC	COMMON STOCK	\$	99,150
LEGALZOOM.COM INC	COMMON STOCK	\$	104,727
LEGRAND SA-UNSP ADR	COMMON STOCK	\$	82,666
LEMAITRE VASCULAR INC	COMMON STOCK	\$	347,736
LEONARDO DRS INC	COMMON STOCK	\$	275,863
LESLIE'S INC	COMMON STOCK	\$	221,343
LEVI STRAUSS & CO	COMMON STOCK	\$	84,078
LIBERTY ENERGY INC CL A	COMMON STOCK	\$	120,832
LIFE360 INC	COMMON STOCK	\$	15,971
LIGAND PHARMACEUTICALS INC	COMMON STOCK	\$	208,728
LIMBACH HOLDINGS INC	COMMON STOCK	\$	277,406
LINCOLN EDUCATIONAL SERVICES CORP	COMMON STOCK	\$	195,456
LINCOLN ELECTRIC HOLDINGS COM	COMMON STOCK	\$	301,827
LINDSAY CORPORATION	COMMON STOCK	\$	245,257
LITTELFUSE INC COM	COMMON STOCK	\$	748,660
LIVANOVA PLC	COMMON STOCK	\$	423,829
LIVE NATION ENT INC	COMMON STOCK	\$	624,061
LKQ CORP	COMMON STOCK	\$	173,754
LOAR HOLDINGS INC	COMMON STOCK	\$	54,324
LOMA NEGRA CORP	COMMON STOCK	\$	295,778
LOUISIANA PAC CORP	COMMON STOCK	\$	374,540
LULULEMON ATHLETICA INC	COMMON STOCK	\$	188,146
LUMENTUM HOLGINGS INC	COMMON STOCK	\$	202,068
MAGNITE INC	COMMON STOCK	\$	213,774
MAGNOLIA OIL & GAS CORP CL A	COMMON STOCK	\$	204,341
MAMA'S CREATIONS INC	COMMON STOCK	\$	296,677
MANNKIND CORPORATION	COMMON STOCK	\$	83,725
MAREX GROUP PLC	COMMON STOCK	\$	268,841
MARTEN TRANS LTD	COMMON STOCK	\$	491,278
MARVELL TECHNOLOGY INC	COMMON STOCK	\$	2,541,786
MASCO CORP	COMMON STOCK	\$	2,633,856
MASIMO CORP	COMMON STOCK	\$	167,449
MASTERCARD INC	COMMON STOCK	\$	4,876,038
MATIV HOLDINGS INC	COMMON STOCK	\$	135,738
MATTHEWS INTL CORP	COMMON STOCK	\$	68,840
MAXIMUS INC	COMMON STOCK	\$	163,707
MAYVILLE ENGINEERING CO INC	COMMON STOCK	\$	95,892
MCCORMICK & CO INC NON VTG	COMMON STOCK	\$	328,518
MDU RES GROUP INC	COMMON STOCK	\$	103,615
MEDPACE HOLDINGS INC	COMMON STOCK	\$	509,641
MEDTRONIC, PLC	COMMON STOCK	\$	2,128,003
MERCADOLIBRE INC	COMMON STOCK	\$	588,352
MERCK & CO INC NEW	COMMON STOCK	\$	2,487,000
META PLATFORMS INC CL A	COMMON STOCK	\$	3,881,931
MICROCHIP TECHNOLOGY INC COM	COMMON STOCK	\$	737,292
MICRON TECHNOLOGY INC	COMMON STOCK	\$	726,890
MICROSOFT CORP	COMMON STOCK	\$	10,785,342
MID AMERICAN APARTMENT COM	COMMON STOCK	\$	419,503
MIDCAP FINANCIAL INVESTMENT CORP	COMMON STOCK	\$	85,122

MINERALS TECHNOLOGIES INC COM	COMMON STOCK	\$	109,514
MIRION TECHNOLOGIES INC CL A	COMMON STOCK	\$	78,420
MIRUM PHARMACEUTICALS INC	COMMON STOCK	\$	140,590
MISSION PRODUCE INC	COMMON STOCK	\$	339,146
MISTER CAR WASH INC	COMMON STOCK	\$	121,984
MODINE MFG CO	COMMON STOCK	\$	485,979
MOELIS & CO	COMMON STOCK	\$	245,134
MOHAWK INDS INC COM	COMMON STOCK	\$	439,947
MONDAY.COM LTD	COMMON STOCK	\$	608,848
MONGODB INC	COMMON STOCK	\$	233,974
MONOLITHIC PWR SYS INC	COMMON STOCK	\$	1,386,353
MONTROSE ENVIRONMENTAL GROUP I	COMMON STOCK	\$	232,246
MOTOROLA SOLUTIONS, INC.	COMMON STOCK	\$	358,228
MSCI INC	COMMON STOCK	\$	3,081,651
MUELLER INDS INC	COMMON STOCK	\$	661,862
MUELLER WATER PRODUCTS INC	COMMON STOCK	\$	245,498
MYERS INDS INC	COMMON STOCK	\$	70,126
MYOMO INC	COMMON STOCK	\$	33,952
NASDAQ, INC	COMMON STOCK	\$	650,177
NATERA INC	COMMON STOCK	\$	713,300
NATIONAL VISION HOLDINGS INC	COMMON STOCK	\$	134,512
NATURAL GAS SERVICES GROUP	COMMON STOCK	\$	82,624
NETAPP INC	COMMON STOCK	\$	2,109,754
NETFLIX INC	COMMON STOCK	\$	3,360,276
NEUROCRINE BIOSCIENCES INC COM	COMMON STOCK	\$	350,123
NEW MOUNTAIN FINANCE CORP	COMMON STOCK	\$	101,284
NEW PENNYMAC FINANCIAL SERVICE	COMMON STOCK	\$	204,280
NEW YORK MORTGAGE TRUST INC REIT	COMMON STOCK	\$	67,115
NEWMARKET CORP	COMMON STOCK	\$	268,402
NEXGEN ENERGY LPD	COMMON STOCK	\$	114,556
NIKE INC CL B	COMMON STOCK	\$	80,286
NOMAD FOODS LTD	COMMON STOCK	\$	250,391
NORTHERN OIL AND GAS INC	COMMON STOCK	\$	153,099
NORTHERN TRUST CORP	COMMON STOCK	\$	1,020,080
NORTHROP GRUMMAN CORP	COMMON STOCK	\$	512,465
NOVANTA, INC.	COMMON STOCK	\$	230,377
NOVO NORDISK A/S - ADR	COMMON STOCK	\$	1,035,767
NPK INTERNATIONAL INC	COMMON STOCK	\$	165,381
NUSCALE POWER CORP CL A	COMMON STOCK	\$	267,874
NV5 GLOBAL INC	COMMON STOCK	\$	193,487
NVENT ELECTRIC PLC-W/I	COMMON STOCK	\$	677,238
NVIDIA CORP	COMMON STOCK	\$	7,270,729
OKTA INC	COMMON STOCK	\$	531,585
OLD DOMINION FREIGHT LINES INC	COMMON STOCK	\$	1,116,965
OLD NATL BANCORP	COMMON STOCK	\$	92,963
OLIN CORP 1 COM & 1 TAEKOVER RT	COMMON STOCK	\$	611,577
OLLIE'S BARGAIN OUTLET HOLDING	COMMON STOCK	\$	638,080
OMNICOM GROUP	COMMON STOCK	\$	1,717,358
ON HOLDING AG	COMMON STOCK	\$	553,725
ON SEMICONDUCTOR CORP	COMMON STOCK	\$	620,979
ONEMAIN HOLDINGS INC	COMMON STOCK	\$	536,783
ONESPAWORLD HOLDINGS LTD	COMMON STOCK	\$	512,684
ONESTREAM INC CL A	COMMON STOCK	\$	110,943
OPTION CARE HEALTH INC	COMMON STOCK	\$	550,930
ORACLE CORPORATION	COMMON STOCK	\$	3,762,898
O'REILLY AUTOMOTIVE INC	COMMON STOCK	\$	2,019,417
OSCAR HEALTH INC CL A	COMMON STOCK	\$	331,081
PAGAYA TECHNOLOGIES LTD CL A	COMMON STOCK	\$	14,985

PAGERDUTY INC	COMMON STOCK	\$	401,866
PALO ALTO NETWORKS INC	COMMON STOCK	\$	563,166
PALOMAR HOLDINGS INC	COMMON STOCK	\$	90,913
PAR TECHNOLOGY GROUP	COMMON STOCK	\$	53,485
PATTERSON COS INC	COMMON STOCK	\$	164,762
PATTERSON-UTI ENERGY INC	COMMON STOCK	\$	139,156
PAYCOM SOFTWARE INC	COMMON STOCK	\$	1,256,466
PAYCOR HCM INC	COMMON STOCK	\$	324,344
PAYLOCITY HOLDING CORP	COMMON STOCK	\$	538,569
PEGASYSTEMS INC	COMMON STOCK	\$	424,712
PELTON INTERACTIVE INC	COMMON STOCK	\$	462,640
PENNON GROUP PLC ADR	COMMON STOCK	\$	1,230,278
PENUMBRA INC	COMMON STOCK	\$	195,684
PERELLA WEINBERG PARTNERS	COMMON STOCK	\$	198,253
PERFORMANCE FOOD GROUP CO	COMMON STOCK	\$	679,359
PERRIGO CO PLC	COMMON STOCK	\$	87,414
PHREESIA INC	COMMON STOCK	\$	111,559
PINNACLE FINL PARTNERS INC	COMMON STOCK	\$	422,671
PIPER SANDLER COS	COMMON STOCK	\$	341,043
PLANET FITNESS INC	COMMON STOCK	\$	445,904
PLEXUS CORP COM	COMMON STOCK	\$	861,109
POLARIS INC	COMMON STOCK	\$	998,727
POOL CORPORATION	COMMON STOCK	\$	611,305
PORTLAND GEN ELEC CO	COMMON STOCK	\$	350,051
POWELL INDS INC COM	COMMON STOCK	\$	306,764
POWER INTERGRATIONS INC COM	COMMON STOCK	\$	409,873
POWERFLEET INC	COMMON STOCK	\$	296,004
PPG INDUSTRIES INC	COMMON STOCK	\$	2,237,299
PREMIER INC	COMMON STOCK	\$	58,936
PRESTIGE CONSUMER HEALTHCARE	COMMON STOCK	\$	312,204
PRIMERICA INC	COMMON STOCK	\$	656,294
PRIMO BRANDS CORPORATION CL A	COMMON STOCK	\$	634,939
PRIMORIS SERVICES CORPORATION	COMMON STOCK	\$	223,317
PROASSURANCE CORPORATION	COMMON STOCK	\$	66,297
PRO-DEX INC	COMMON STOCK	\$	33,567
PROGRESS SOFTWARE CORP	COMMON STOCK	\$	253,824
PROGRESSIVE CORP OHIO	COMMON STOCK	\$	2,247,063
PROSPERITY BANCSHARES INC	COMMON STOCK	\$	329,204
PURE STORAGE INC	COMMON STOCK	\$	491,317
PURECYCLE TECHNOLOGIES INC	COMMON STOCK	\$	27,614
PURSUIT ATTRACTIONS AND HOSPITALITY	COMMON STOCK	\$	188,574
Q2 HOLDINGS INC	COMMON STOCK	\$	844,454
QIAGEN N.V.	COMMON STOCK	\$	1,869,503
QUAKER CHEM CORP	COMMON STOCK	\$	116,549
QUALCOMM INC	COMMON STOCK	\$	2,149,144
QUALYS INC	COMMON STOCK	\$	126,338
QUANEX BUILDING PRODUCTS	COMMON STOCK	\$	198,235
QUANTA SVCS INC COM	COMMON STOCK	\$	1,053,079
QUEST DIAGNOSTICS INC	COMMON STOCK	\$	1,163,734
QXO	COMMON STOCK	\$	416,834
RADNET INC	COMMON STOCK	\$	269,163
RANGE RES CORP	COMMON STOCK	\$	638,321
RAYMOND JAMES FINL INC	COMMON STOCK	\$	775,407
RED VIOLET INC	COMMON STOCK	\$	101,324
REGAL REXNORD CORP	COMMON STOCK	\$	586,391
REINSURANCE GROUP AMER CLASS A NEW	COMMON STOCK	\$	1,296,948
REMITLY GLOBAL INC	COMMON STOCK	\$	430,004
RENASANT CORP	COMMON STOCK	\$	190,941

REPAY HOLDINGS CORP	COMMON STOCK	\$	271,803
REPLIGEN CORP	COMMON STOCK	\$	342,001
REPUBLIC SERVICES INC CL A COMM	COMMON STOCK	\$	309,415
REVOLVE GROUP INC	COMMON STOCK	\$	726,967
RISKIFIED LTD	COMMON STOCK	\$	147,628
ROBERT HALF INC.	COMMON STOCK	\$	746,946
ROBINHOOD MARKETS INC	COMMON STOCK	\$	1,184,980
ROBLOX CORP	COMMON STOCK	\$	499,795
ROGERS CORP COM	COMMON STOCK	\$	844,481
ROLLINS INC	COMMON STOCK	\$	1,576,178
ROPER TECHNOLOGIES INC	COMMON STOCK	\$	654,491
ROYAL CARRIBEAN CRUISE	COMMON STOCK	\$	1,643,666
RUSH STREET INTERACTIVE INC	COMMON STOCK	\$	451,031
RYAN SPECIALTY HOLDINGS INC CL A	COMMON STOCK	\$	632,810
S&P GLOBAL INC	COMMON STOCK	\$	856,612
SAIA INC	COMMON STOCK	\$	251,107
SALESFORCE INC	COMMON STOCK	\$	1,663,292
SAMSARA INC	COMMON STOCK	\$	521,877
SBA COMMUNICATIONS CORP	COMMON STOCK	\$	526,823
SCHEIN HENRY INC	COMMON STOCK	\$	2,209,348
SCHLUMBERGER LTD	COMMON STOCK	\$	386,774
SCHRODINGER INC/UNITED STATES	COMMON STOCK	\$	80,324
SCHWAB CHARLES CORP NEW	COMMON STOCK	\$	2,093,299
SEI INVESTMENT COMPANY	COMMON STOCK	\$	1,392,262
SEMTECH CORP COM	COMMON STOCK	\$	349,329
SENSATA TECHNOLOGIES HOLDING PLC	COMMON STOCK	\$	75,569
SENTINELONE INC	COMMON STOCK	\$	45,910
SERVICE CORP INTL	COMMON STOCK	\$	398,142
SERVICENOW INC	COMMON STOCK	\$	4,749,338
SEVERN TRENT PLC	COMMON STOCK	\$	85,339
SEZZLE INC	COMMON STOCK	\$	165,758
SHAKE SHACK INC	COMMON STOCK	\$	423,018
SHOPIFY INC - A W/I	COMMON STOCK	\$	3,430,525
SILGAN HLDGS INC COM	COMMON STOCK	\$	405,209
SIMILARWEB LTD	COMMON STOCK	\$	308,750
SIMPLY GOOD FOODS CO/THE	COMMON STOCK	\$	521,552
SIMPSON MFG INC COM	COMMON STOCK	\$	895,648
SITEONE LANDSCAPE SUPPLY INC	COMMON STOCK	\$	337,068
SITIME CORP	COMMON STOCK	\$	375,428
SJW GROUP	COMMON STOCK	\$	676,972
SKECHERS U S A INC	COMMON STOCK	\$	1,419,705
SKYWARD SPECIALTY INSURANCE GROUP	COMMON STOCK	\$	211,409
SKYWEST INC	COMMON STOCK	\$	128,066
SM ENERGY CO	COMMON STOCK	\$	41,086
SMITH & NEPHEW PLC - ADR	COMMON STOCK	\$	568,142
SOLVENTUM CORP	COMMON STOCK	\$	910,373
SONY GROUP CORP - SP ADR	COMMON STOCK	\$	1,295,204
SOUTHSTATE CORP	COMMON STOCK	\$	333,258
SOUTHWEST AIRLINES CO	COMMON STOCK	\$	83,344
SPECTRUM BRANDS HLDGS INC NEW	COMMON STOCK	\$	459,964
SPIRAX-SACRO ENGR PLC	COMMON STOCK	\$	180,712
SPOTIFY TECHNOLOGY S.A.	COMMON STOCK	\$	889,839
SPROUTS FARMERS MARKETS LLC	COMMON STOCK	\$	227,837
SPS COMMERCE INC	COMMON STOCK	\$	757,303
SS&C TECHNOLOGIES HOLDINGS INC	COMMON STOCK	\$	184,449
STERIS PLC	COMMON STOCK	\$	636,825
STERLING INFRASTRUCTURE, INC	COMMON STOCK	\$	503,329
STEVEN MADDEN LTD	COMMON STOCK	\$	150,096

STEWART INFORMATION SVCS CORP COM	COMMON STOCK	\$	353,715
STRATEGIC EDUCATION, INC.	COMMON STOCK	\$	155,638
STRIDE INC	COMMON STOCK	\$	607,055
SUMMIT MATERIALS INC	COMMON STOCK	\$	765,527
SUMMIT THERAPEUTICS INC	COMMON STOCK	\$	138,602
SUN CMNTYS INC COM	COMMON STOCK	\$	549,061
SWEETGREEN INC	COMMON STOCK	\$	747,832
SYNCHRONOSS TECHNOLOGIES INC	COMMON STOCK	\$	17,098
SYSCO CORP	COMMON STOCK	\$	1,177,102
TAIWAN SEMICONDUCTOR MANUFACTUR	COMMON STOCK	\$	1,373,740
TAKE-TWO INTERACTIVE SOFTWARE	COMMON STOCK	\$	806,086
TALEN ENERGY CORP	COMMON STOCK	\$	207,917
TARGET CORP	COMMON STOCK	\$	179,519
TECHNIPFMC LTD	COMMON STOCK	\$	886,143
TECNOGLASS INC	COMMON STOCK	\$	106,051
TELEDYNE TECHNOLOGIES INC	COMMON STOCK	\$	817,333
TEMPUR SEALY INTERNATIONAL	COMMON STOCK	\$	731,868
TERRENO REALTY CORP	COMMON STOCK	\$	495,416
TETRA TECH INC NEW	COMMON STOCK	\$	523,099
TEVA PHARMACEUTICAL INDUSTRIES	COMMON STOCK	\$	917,349
TEXAS CAP BANCSHARES INC	COMMON STOCK	\$	317,727
TFI INTERNATIONAL INC.	COMMON STOCK	\$	380,278
THE BLDWN INSRNCE GRP INC CLASS A	COMMON STOCK	\$	229,653
THE CAMPBELL'S COMPANY	COMMON STOCK	\$	1,710,798
THE DESCARTES SYSTEMS GROUP INC.	COMMON STOCK	\$	628,662
THE REAL BROKERAGE INC	COMMON STOCK	\$	152,757
THE SCOTTS MIRACLE-GRO COMPANY CL A	COMMON STOCK	\$	504,317
THERMO FISHER SCIENTIFIC INC	COMMON STOCK	\$	2,712,479
THRYV HOLDINGS INC	COMMON STOCK	\$	53,117
TIMKEN CO	COMMON STOCK	\$	401,385
TJX COMPANIES INC	COMMON STOCK	\$	511,872
TKO GROUP HLDGS INC CL A	COMMON STOCK	\$	765,831
TOL BROS INC	COMMON STOCK	\$	552,921
TOOTSIE ROLL INDS INC	COMMON STOCK	\$	116,744
TORO CO	COMMON STOCK	\$	349,236
TRADE DESK INC/THE	COMMON STOCK	\$	657,345
TRADEWEB MARKETS INC-CLASS A	COMMON STOCK	\$	1,311,557
TRANSUNION	COMMON STOCK	\$	378,164
TREX COMPANY INC	COMMON STOCK	\$	215,236
TRIMAS CORP	COMMON STOCK	\$	537,980
TRIMBLE INC	COMMON STOCK	\$	215,442
TWIST BIOSCIENCE CORP	COMMON STOCK	\$	122,774
TWO HARBORS INVESTMENT CORP REIT	COMMON STOCK	\$	204,150
TYLER TECHNOLOGIES INC	COMMON STOCK	\$	1,739,723
UFP INDUSTRIES INC	COMMON STOCK	\$	312,942
UFP TECHNOLOGIES INC	COMMON STOCK	\$	101,227
ULTA BEAUTY, INC	COMMON STOCK	\$	267,917
UMB FINL CORP COM	COMMON STOCK	\$	621,520
UNILEVER PLC - ADR	COMMON STOCK	\$	1,223,643
UNITED RENTAL INC COM	COMMON STOCK	\$	201,470
UNITED UTILITIES GROUP PLC - ADR	COMMON STOCK	\$	1,102,836
UNITEDHEALTH GROUP INC	COMMON STOCK	\$	2,496,925
UPWORK INC	COMMON STOCK	\$	288,528
V F CORP	COMMON STOCK	\$	223,978
VALVOLINE INC	COMMON STOCK	\$	720,923
VAREX IMAGING CORP	COMMON STOCK	\$	95,112
VAXCYTE INC	COMMON STOCK	\$	87,426
VERACYTE INC	COMMON STOCK	\$	197,327

VERICEL CORP	COMMON STOCK	\$	413,857
VERISK ANALYTICS INC	COMMON STOCK	\$	908,644
VERRA MOBILITY CORP	COMMON STOCK	\$	202,459
VERTEX INC	COMMON STOCK	\$	252,826
VERTIV HOLDINGS LLC CL A	COMMON STOCK	\$	987,725
VICOR CORP	COMMON STOCK	\$	184,148
VICTORY CAPITAL HOLDINGS INC	COMMON STOCK	\$	278,205
VIKING HOLDING LTD	COMMON STOCK	\$	377,682
VISA INC-CLASS A SHRS	COMMON STOCK	\$	4,086,397
VISTRA CORP	COMMON STOCK	\$	1,082,280
VITA COCO CO INC/THE	COMMON STOCK	\$	318,533
VSE CORP	COMMON STOCK	\$	616,343
VULCAN MATERIALS COMPANY	COMMON STOCK	\$	1,359,718
WABTEC CORP	COMMON STOCK	\$	1,291,108
WARBY PARKER INC	COMMON STOCK	\$	407,939
WASTE CONNECTIONS, INC.	COMMON STOCK	\$	659,725
WATSCO INC CL A	COMMON STOCK	\$	584,780
WEBSTER FINL CORP WATERBURY CONN	COMMON STOCK	\$	624,759
WERNER ENTERPRISES INC	COMMON STOCK	\$	1,535,257
WESTERN ALLIANCE BANCORPORATION	COMMON STOCK	\$	949,683
WESTLAKE CORP	COMMON STOCK	\$	466,511
WESTWOOD HOLDINGS GROUP INC	COMMON STOCK	\$	25,726
WHITE MTNS INS GROUP	COMMON STOCK	\$	575,738
WILLDAN GROUP INC	COMMON STOCK	\$	405,620
WILLSCOT MOBILE MINI HOLDINGS	COMMON STOCK	\$	493,655
WINTRUST FINL CORP	COMMON STOCK	\$	528,521
WISDOMTREE INC	COMMON STOCK	\$	272,045
WIX.COM LTD	COMMON STOCK	\$	142,032
WNS HOLDINGS LTD ADR	COMMON STOCK	\$	773,737
WORKDAY INC	COMMON STOCK	\$	2,057,531
WORKIVA INC	COMMON STOCK	\$	484,428
XPO INC	COMMON STOCK	\$	795,949
YELP INC	COMMON STOCK	\$	81,154
ZETA GLOBAL HOLDINGS CORP CL A	COMMON STOCK	\$	371,529
ZEVEA PBC	COMMON STOCK	\$	63,705
ZIFF DAVIS INC	COMMON STOCK	\$	43,526
ZIONS BANCORP NA	COMMON STOCK	\$	1,320,120
ZOETIS INC	COMMON STOCK	\$	2,552,298
TE CONNECTIVITY PLC	FOREIGN EQUITIES	\$	80,349
		\$	446,775,156
CONESTOGA SMALL CAP GROWTH CLASS A	COMMON/COLLECTIVE	\$	16,518,902
HARRIS ASSOCS/OAKMARK INTL COLLEC	COMMON/COLLECTIVE	\$	32,185,154
INVESCO EMERGING MARKETS EQUITY TR A	COMMON/COLLECTIVE	\$	23,359,274
JPMCB CORE DVRSFD COMM PRPTY CF2 FD	COMMON/COLLECTIVE	\$	30,343,930
MORLEY STABLE VALUE FUND	COMMON/COLLECTIVE	\$	114,671,917
PIMCO TOTAL RET FD-INST #35	COMMON/COLLECTIVE	\$	124,284,546
PUTNAM STABLE VALUE 25 BPS	COMMON/COLLECTIVE	\$	129,475,936
VONTOBEL INTL EQUITY TR FOUNDERS CL	COMMON/COLLECTIVE	\$	28,908,626
NT COLLECTIVE SHORT TERM INVT FUND - CASH	COMMON/COLLECTIVE	\$	14,830,367
		\$	514,578,652
ARTISAN MID CAP FUND #962	MUTUAL FUND	\$	27,242,909
BARROW HANDLEY SMALL CAP VALUE	MUTUAL FUND	\$	19,611,546
BLACKROCK STRAT INC OPP-INST #446	MUTUAL FUND	\$	11,522,865
DODGE & COX STOCK FUND #145	MUTUAL FUND	\$	53,697,534
EATON VANCE-ATLANTA SMID-R6 #1016	MUTUAL FUND	\$	27,158,845
HRDNG LVNR INTL SM CO-INST	MUTUAL FUND	\$	14,388,447

LOOMIS SAYLES STRAT INC-Y	MUTUAL FUND	\$	11,411,098
NEUBERGER BERMAN GEN INSTL CL #1229	MUTUAL FUND	\$	19,815,505
PIMCO GL BD OPP USD HD-INS #249	MUTUAL FUND	\$	80,981,030
QUAD - LYRICAL PARTNERS	MUTUAL FUND	\$	28,139,706
SPDR S & P BIOTECH ETF	MUTUAL FUND	\$	431,297
VANGUARD GROWTH INDEX FD-ADM #509	MUTUAL FUND	\$	4,569,649
VANGUARD INSTL INDEX FD- PLUS #854	MUTUAL FUND	\$	50,633,859
VANGUARD M/C GROW INDEX-ADM #5832	MUTUAL FUND	\$	2,998,399
VANGUARD M/C VAL INDX-ADM #5835	MUTUAL FUND	\$	2,867,045
VANGUARD MID-CAP INDX FD- I #864	MUTUAL FUND	\$	13,855,869
VANGUARD PRIMECAP FD-ADM #559	MUTUAL FUND	\$	72,471,377
VANGUARD REAL EST INDX-ADM #5123	MUTUAL FUND	\$	3,255,898
VANGUARD S/C GROWTH INDX-ADM #5861	MUTUAL FUND	\$	2,227,326
VANGUARD S/C VALUE INDEX-ADM #5860	MUTUAL FUND	\$	1,619,763
VANGUARD SMALL CAP INDX- INST #857	MUTUAL FUND	\$	13,826,742
VANGUARD TOTAL INT ST IDX-AD #569	MUTUAL FUND	\$	2,560,597
VANGUARD VALUE INDEX FD-ADM #506	MUTUAL FUND	\$	6,600,577
VICTORY SYCAMORE EST VAL - R6 #308	MUTUAL FUND	\$	33,189,809
WCM FOCUSED INTL GROWTH-INS	MUTUAL FUND	\$	34,143,862
ARGA EMERG MKTS VALUE EQTY CIT FUND	REG INVESTMENT	\$	11,883,381
JANUS HENDERSON ENTERPR COLL FD III	REG INVESTMENT	\$	27,455,364
VANGUARD GROUP - BALANCED FUND	REG INVESTMENT	\$	135,124,103
VANGUARD GROUP - LARGE CAP INDEX	REG INVESTMENT	\$	251,934,622
VANGUARD GROUP - MID CAP INDEX	REG INVESTMENT	\$	54,045,156
VANGUARD GROUP - SMALL CAP INDEX	REG INVESTMENT	\$	42,953,827
		\$	1,062,618,006
PRINCIPAL U.S. PROPERTY SEP ACCT-Z	POOLED SEPARATE ACCOUNT	\$	10,790,449
ALBEMARLE CORP COM	PREFERRED CONVERTIBLE	\$	84,595
CHARLES SCHWAB CORP 5.950% PFD	PREFERRED STOCKS	\$	528,857
METLIFE INC 4.750% PFD	PREFERRED STOCKS	\$	85,388
		\$	698,839
QUAD GRAPHICS, INC. ESOP STOCK	COMPANY STOCK	\$	17,358,594