

MFS INTERMEDIATE HIGH INCOME FUND

Form N-Q

April 25, 2008

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF
REGISTERED MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-5567

MFS INTERMEDIATE HIGH INCOME FUND

(Exact name of registrant as specified in charter)

500 Boylston Street, Boston, Massachusetts 02116

(Address of principal executive offices) (Zip code)

Susan S. Newton

Massachusetts Financial Services Company

500 Boylston Street

Boston, Massachusetts 02116

(Name and address of agents for service)

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Registrant's telephone number, including area code: (617) 954-5000

Date of fiscal year end: November 30

Date of reporting period: February 29, 2008

ITEM 1. SCHEDULE OF INVESTMENTS.

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MFS Intermediate High Income Fund

PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08

Issuer	Shares/Par	Value (\$)
Bonds 124.2%		
Aerospace 3.3%		
Bombardier, Inc., 6.3%, 2014 (n)	\$ 640,000	\$ 608,000
DRS Technologies, Inc., 6.875%, 2013	355,000	347,900
Hawker Beechcraft Acquisition Co. LLC, 9.75%, 2017	500,000	496,250
TransDigm Group, Inc., 7.75%, 2014	375,000	373,125
Vought Aircraft Industries, Inc., 8%, 2011	430,000	398,288
		\$ 2,223,563
Apparel Manufacturers 0.6%		
Broder Brothers Co., 11.25%, 2010	\$ 260,000	\$ 182,000
Hanesbrands, Inc., FRN, 8.203%, 2014	220,000	193,600
		\$ 375,600
Asset Backed & Securitized 0.3%		
JPMorgan Chase Commercial Mortgage Securities Corp., FRN, 6.058%, 2051	\$ 155,000	\$ 115,028
Merrill Lynch Mortgage Trust, FRN, 5.829%, 2050	155,000	113,530
		\$ 228,558
Automotive 4.4%		
Allison Transmission, Inc., 11%, 2015 (n)	\$ 690,000	\$ 589,950
Ford Motor Credit Co. LLC, 9.75%, 2010	866,000	814,371
Ford Motor Credit Co. LLC, 7.8%, 2012	710,000	612,199
Ford Motor Credit Co. LLC, 8%, 2016	185,000	151,509
General Motors Acceptance Corp., 8.375%, 2033	538,000	411,570
Goodyear Tire & Rubber Co., 8.625%, 2011	107,000	111,280
Goodyear Tire & Rubber Co., 9%, 2015	244,000	256,810
		\$ 2,947,689
Basic Industry 0.5%		
General Cable Corp., 7.103%, 2015	\$ 170,000	\$ 146,200
General Cable Corp., 7.125%, 2017	170,000	163,200
		\$ 309,400
Broadcasting 8.5%		
Allbritton Communications Co., 7.75%, 2012	\$ 490,000	\$ 487,550
CanWest MediaWorks LP, 9.25%, 2015 (n)	380,000	357,200
CMP Susquehanna Corp., 9.875%, 2014	355,000	234,744
Inmarsat Finance II PLC, 0% to 2008, 10.375% to 2012	460,000	445,050
Intelsat Corp., 9%, 2014	226,000	226,000
Intelsat Jackson Holdings Ltd., 11.25%, 2016	410,000	408,463
Intelsat Ltd., 0% to 2010, 9.25% to 2015	310,000	259,625
ION Media Networks, Inc., FRN, 10.507%, 2013 (n)	430,000	331,638
Lamar Media Corp., 6.625%, 2015	695,000	639,400
Lamar Media Corp., C , 6.625%, 2015	295,000	271,400

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LBI Media, Inc., 8.5%, 2017 (n)	210,000	183,750
LIN TV Corp., 6.5%, 2013	460,000	416,300
Local TV Finance LLC, 9.25%, 2015 (n)(p)	410,000	334,150
Nexstar Broadcasting Group, Inc., 7%, 2014	350,000	317,625
Univision Communications, Inc., 9.75%, 2015 (n)(p)	1,190,000	821,100

\$ 5,733,995

Brokerage & Asset Managers 0.8%

Nuveen Investments, Inc., 10.5%, 2015 (n)	\$ 605,000	\$ 549,794
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Building 0.7%

Building Materials Corp. of America, 7.75%, 2014	\$ 370,000	\$ 273,800
Ply Gem Industries, Inc., 9%, 2012	270,000	195,750

\$ 469,550

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PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

Issuer	Shares/Par	Value (\$)
Bonds continued		
Business Services 1.2%		
SunGard Data Systems, Inc., 9.125%, 2013	\$ 275,000	\$ 277,063
SunGard Data Systems, Inc., 10.25%, 2015	532,000	529,340
		\$ 806,403
Cable TV 5.2%		
Cablevision Systems Corp., 8%, 2012	\$ 325,000	\$ 312,813
CCH I Holdings LLC, 11%, 2015	880,000	611,600
CCH II Holdings LLC, 10.25%, 2010	410,000	375,150
CCO Holdings LLC, 8.75%, 2013	680,000	596,700
CSC Holdings, Inc., 7.625%, 2011	585,000	581,344
CSC Holdings, Inc., 7.625%, 2018	140,000	128,100
Mediacom LLC, 9.5%, 2013	260,000	227,500
Videotron LTEE, 6.875%, 2014	290,000	281,300
Virgin Media Finance PLC, 8.75%, 2014	180,000	153,900
Virgin Media Finance PLC, 8.75%, 2014	EUR 160,000	200,534
		\$ 3,468,941
Chemicals 5.5%		
Chemtura Corp., 6.875%, 2016	\$ 400,000	\$ 362,000
Huntsman International LLC, 6.875%, 2013 (n)	EUR 200,000	291,686
Huntsman International LLC, 7.875%, 2014	\$ 370,000	382,950
Innophos, Inc., 8.875%, 2014	735,000	716,625
Koppers Holdings, Inc., 0% to 2009, 9.875% to 2014	340,000	289,000
Momentive Performance Materials, Inc., 9.75%, 2014	305,000	272,975
Momentive Performance Materials, Inc., 11.5%, 2016	185,000	141,525
Mosaic Co., 7.875%, 2016 (n)	345,000	370,875
Nalco Co., 7.75%, 2011	330,000	333,300
Nalco Co., 8.875%, 2013	535,000	545,700
		\$ 3,706,636
Computer Software 0.6%		
First Data Corp., 9.875%, 2015 (n)	\$ 500,000	\$ 433,750
Consumer Goods & Services 3.0%		
Corrections Corp. of America, 6.25%, 2013	\$ 325,000	\$ 324,188
GEO Group, Inc., 8.25%, 2013	435,000	436,631
KAR Holdings, Inc., 10%, 2015 (n)	280,000	242,200
Service Corp. International, 7.375%, 2014	50,000	51,000
Service Corp. International, 6.75%, 2016	205,000	203,975
Service Corp. International, 7%, 2017	785,000	779,113
		\$ 2,037,107
Containers 3.0%		
Crown Americas LLC, 7.625%, 2013	\$ 215,000	\$ 217,688
Crown Americas LLC, 7.75%, 2015	530,000	541,925

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Graham Packaging Co. LP, 9.875%, 2014	400,000	341,000
Owens-Brockway Glass Container, Inc., 8.25%, 2013	900,000	931,500
		\$ 2,032,113

Defense Electronics 0.8%

L-3 Communications Corp., 5.875%, 2015	\$ 200,000	\$ 194,500
L-3 Communications Corp., 6.375%, 2015	310,000	307,675
		\$ 502,175

Electronics 1.1%

Flextronics International Ltd., 6.25%, 2014	\$ 420,000	\$ 389,550
Spanion LLC, 11.25%, 2016 (n)	500,000	345,000
		\$ 734,550

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PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

Issuer	Shares/Par	Value (\$)
Bonds continued		
Energy - Independent 6.5%		
Chaparral Energy, Inc., 8.875%, 2017	\$ 315,000	\$ 269,325
Chesapeake Energy Corp., 7.5%, 2014	370,000	377,400
Chesapeake Energy Corp., 7%, 2014	195,000	195,488
Chesapeake Energy Corp., 6.375%, 2015	270,000	261,225
Forest Oil Corp., 8%, 2011	220,000	228,800
Hilcorp Energy I LP, 7.75%, 2015 (n)	125,000	117,813
Hilcorp Energy I LP, 9%, 2016 (n)	255,000	255,000
Mariner Energy, Inc., 8%, 2017	510,000	489,600
Newfield Exploration Co., 6.625%, 2014	365,000	357,700
OPTI Canada, Inc., 8.25%, 2014 (n)	605,000	597,438
Plains Exploration & Production Co., 7%, 2017	580,000	556,800
Quicksilver Resources, Inc., 7.125%, 2016	325,000	311,188
Southwestern Energy Co., 7.5%, 2018 (z)	360,000	370,800
		\$ 4,388,577
Entertainment 0.3%		
Marquee Holdings, Inc., 9.505%, 2014	\$ 245,000	\$ 178,850
Financial Institutions 2.3%		
General Motors Acceptance Corp., 6.875%, 2011	\$ 1,570,000	\$ 1,281,005
Residential Capital LLC, 6.125%, 2008	348,000	268,830
Residential Capital LLC, 8.5%, 2012	40,000	21,800
		\$ 1,571,635
Food & Beverages 2.8%		
ARAMARK Corp., 8.5%, 2015	\$ 525,000	\$ 517,125
B&G Foods, Inc., 8%, 2011	325,000	312,000
Dean Foods Co., 7%, 2016	495,000	433,125
Del Monte Corp., 6.75%, 2015	335,000	318,250
Reddy Ice Holdings, Inc., 0% to 2008, 10.5% to 2012	315,000	303,188
		\$ 1,883,688
Forest & Paper Products 3.2%		
Abitibi-Consolidated, Inc., 8.375%, 2015	\$ 380,000	\$ 212,800
Bowater, Inc., 6.5%, 2013	500,000	297,500
Catalyst Paper Corp., 8.625%, 2011	300,000	251,250
Georgia-Pacific Corp., 8%, 2024	425,000	376,125
Graphic Packaging International Corp., 9.5%, 2013	100,000	94,250
Jefferson Smurfit Corp., 8.25%, 2012	255,000	237,788
Millar Western Forest Products Ltd., 7.75%, 2013	375,000	271,875
NewPage Holding Corp., 10%, 2012	195,000	195,488
NewPage Holding Corp., 12%, 2013	190,000	187,150
		\$ 2,124,226
Gaming & Lodging 9.9%		

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Circus & Eldorado Joint Venture, 10.125%, 2012	\$ 300,000	\$ 301,875
Fontainebleau Las Vegas Holdings LLC, 10.25%, 2015 (n)	750,000	540,000
Galaxy Entertainment Finance Co. Ltd., 9.875%, 2012 (n)	350,000	348,250
Harrah's Operating Co., Inc., 5.375%, 2013	175,000	115,938
Harrah's Operating Co., Inc., 5.625%, 2015	570,000	342,000
Harrah's Operating Co., Inc., 10.75%, 2016 (n)	395,000	345,131
Harrah's Operating Co., Inc., 5.75%, 2017	220,000	125,400
Harrah's Operating Co., Inc., 10.75%, 2018 (p)(z)	210,000	172,200
Isle of Capri Casinos, Inc., 7%, 2014	240,000	163,800
Jacobs Entertainment, Inc., 9.75%, 2014	365,000	302,950
MGM Mirage, 5.875%, 2014	180,000	158,400
MGM Mirage, 7.5%, 2016	1,700,000	1,581,000

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PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

Issuer	Shares/Par	Value (\$)
Bonds continued		
Gaming & Lodging continued		
Pinnacle Entertainment, Inc., 7.5%, 2015 (n)	\$ 690,000	\$ 531,300
Station Casinos, Inc., 6.875%, 2016	410,000	258,300
Station Casinos, Inc., 6.625%, 2018	875,000	535,938
Trump Entertainment Resorts Holdings, Inc., 8.5%, 2015	705,000	489,975
Wynn Las Vegas LLC, 6.625%, 2014	365,000	350,400
		\$ 6,662,857
Industrial 1.9%		
Blount, Inc., 8.875%, 2012	\$ 335,000	\$ 325,788
Cii Carbon LLC, 11.125%, 2015 (n)	150,000	130,500
JohnsonDiversey Holdings, Inc., B , 9.625%, 2012	745,000	741,259
JohnsonDiversey, Inc., 9.625%, 2012	EUR 60,000	82,948
		\$ 1,280,495
Insurance - Health 0.3%		
Centene Corp., 7.25%, 2014	\$ 190,000	\$ 184,300
Insurance - Property & Casualty 0.8%		
USI Holdings Corp., 9.75%, 2015 (n)	\$ 655,000	\$ 511,719
Machinery & Tools 1.0%		
Case New Holland, Inc., 7.125%, 2014	\$ 500,000	\$ 500,000
United Rentals, Inc., 7.75%, 2013	210,000	171,150
		\$ 671,150
Medical & Health Technology & Services 10.3%		
Community Health Systems, Inc., 8.875%, 2015	\$ 935,000	\$ 917,469
Cooper Cos., Inc., 7.125%, 2015	355,000	337,250
DaVita, Inc., 7.25%, 2015	1,030,000	1,019,700
HCA, Inc., 6.375%, 2015	520,000	434,200
HCA, Inc., 9.25%, 2016	1,095,000	1,122,375
HCA, Inc., 9.625%, 2016	530,000	547,225
HealthSouth Corp., 10.75%, 2016	73,000	76,468
LVB Acquisition Merger Sub, Inc., 10%, 2017 (n)	370,000	382,488
LVB Acquisition Merger Sub, Inc., 11.625%, 2017 (n)	475,000	467,281
Psychiatric Solutions, Inc., 7.75%, 2015	340,000	336,600
U.S. Oncology, Inc., 10.759%, 2012	265,000	204,050
U.S. Oncology, Inc., 10.75%, 2014	300,000	296,250
Universal Hospital Services, Inc., 8.5%, 2015 (p)	400,000	399,000
VWR Funding, Inc., 10.25%, 2015 (p)	375,000	351,564
		\$ 6,891,920
Metals & Mining 5.6%		
Arch Western Finance LLC, 6.75%, 2013	\$ 255,000	\$ 251,175

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FMG Finance Ltd., 10.625%, 2016 (n)	670,000	760,450
Foundation PA Coal Co., 7.25%, 2014	110,000	108,900
Freeport-McMoRan Copper & Gold, Inc., 8.375%, 2017	1,125,000	1,192,500
Freeport-McMoRan Copper & Gold, Inc., FRN, 8.394%, 2015	555,000	533,494
Peabody Energy Corp., 7.375%, 2016	480,000	496,800
PNA Group, Inc., 10.75%, 2016	250,000	220,000
Ryerson, Inc., 12%, 2015 (n)	210,000	197,400

\$ 3,760,719

Municipals 1.5%

Cabazon Band Mission Indians, CA, Mortgage Notes, 13%, 2011	\$ 575,000	\$ 631,045
Virginia Tobacco Settlement Financing Corp., A-1, 6.706%, 2046	425,000	384,549

\$ 1,015,594

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PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

Issuer	Shares/Par	Value (\$)
Bonds continued		
Mutual Funds 2.7%		
Dow Jones CDX High Yield Index, 7.625%, 2012 (z)	\$ 1,980,000	\$ 1,842,588
Natural Gas - Distribution 1.2%		
AmeriGas Partners LP, 7.125%, 2016	\$ 380,000	\$ 370,500
Inergy LP, 6.875%, 2014	450,000	436,500
		\$ 807,000
Natural Gas - Pipeline 4.8%		
Atlas Pipeline Partners LP, 8.125%, 2015	\$ 270,000	\$ 265,950
Colorado Interstate Gas Co., 6.8%, 2015	130,000	136,892
Deutsche Bank (El Paso Performance-Linked Trust, CLN), 7.75%, 2011 (n)	300,000	311,197
El Paso Corp., 6.875%, 2014	325,000	332,331
El Paso Corp., 7.75%, 2032	275,000	283,758
Knight, Inc., 7.25%, 2028	350,000	348,250
Williams Cos., Inc., 6.375%, 2010 (n)	935,000	956,038
Williams Cos., Inc., 8.125%, 2012	140,000	152,600
Williams Cos., Inc., 7.75%, 2031	215,000	231,931
Williams Cos., Inc., 8.75%, 2032	161,000	189,578
		\$ 3,208,525
Network & Telecom 4.2%		
Cincinnati Bell, Inc., 7%, 2015	\$ 395,000	\$ 371,300
Citizens Communications Co., 7.875%, 2027	325,000	289,250
Nordic Telephone Co. Holdings, 8.25%, 2016 (n)	EUR 240,000	333,616
Orascom Telecom Finance S.C.A., 7.875%, 2014 (z)	\$ 225,000	210,083
Qwest Communications International, Inc. B, 7.5%, 2014	250,000	243,125
Qwest Corp., 8.875%, 2012	515,000	537,531
Qwest Corp., 7.5%, 2014	145,000	143,550
Windstream Corp., 8.625%, 2016	650,000	661,375
		\$ 2,789,830
Oil Services 1.4%		
Basic Energy Services, Inc., 7.125%, 2016	\$ 345,000	\$ 327,750
Compagnie Generale de Geophysique - Veritas, 7.75%, 2017	195,000	196,463
Pride International, Inc., 7.375%, 2014	220,000	228,800
Seitel, Inc., 9.75%, 2014	220,000	182,600
		\$ 935,613
Other Banks & Diversified Financials 0.1%		
VTB Capital S.A., 6.609%, 2012 (n)	\$ 101,000	\$ 98,980
Pharmaceuticals 0.4%		
Rotavax LLC, 10.62%, 2014 (z)	\$ 250,889	\$ 237,091

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Pollution Control 1.0%

Allied Waste North America, Inc., 7.875%, 2013	\$	675,000	\$	689,344
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Printing & Publishing 4.9%

American Media Operations, Inc., 10.25%, 2009	\$	15,926	\$	10,909
American Media Operations, Inc., B, 10.25%, 2009		438,000		300,030
Dex Media West LLC, 9.875%, 2013		739,000		620,760
Dex Media, Inc., 0% to 2008, 9% to 2013		250,000		180,000
Idearc, Inc., 8%, 2016		1,536,000		906,240
Nielsen Co. B.V., 0% to 2011, 11.125% to 2016	EUR	155,000		133,044
Nielsen Finance LLC, 10%, 2014	\$	205,000		197,825
Nielsen Finance LLC, 0% to 2011, 12.5% to 2016		505,000		320,675
Quebecor World, Inc., 6.125%, 2013 (d)		240,000		105,600

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MFS Intermediate High Income Fund

PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

Issuer	Shares/Par	Value (\$)
Bonds continued		
Printing & Publishing continued		
R.H. Donnelley Corp., 8.875%, 2016	\$ 825,000	\$ 490,875
		\$ 3,265,958
Railroad & Shipping 1.0%		
American Railcar Industries, Inc., 7.5%, 2014	\$ 260,000	\$ 237,900
TFM S.A. de C.V., 9.375%, 2012	410,000	426,400
		\$ 664,300
Real Estate 0.5%		
Rouse Co. LP, 6.75%, 2013 (n)	\$ 350,000	\$ 306,002
Retailers 0.5%		
Buhrmann U.S., Inc., 7.875%, 2015	\$ 140,000	\$ 132,300
Couche-Tard, Inc., 7.5%, 2013	170,000	169,150
		\$ 301,450
Specialty Chemicals 0.4%		
INVISTA, 9.25%, 2012 (n)	\$ 285,000	\$ 291,769
Specialty Stores 0.4%		
Payless ShoeSource, Inc., 8.25%, 2013	\$ 295,000	\$ 268,450
Telecommunications - Wireless 3.8%		
Alltel Corp., 7%, 2012	\$ 504,000	\$ 398,160
American Tower Corp., 7%, 2017 (n)	210,000	209,475
MetroPCS Wireless, Inc., 9.25%, 2014	645,000	567,600
Rogers Wireless, Inc., 8%, 2012	210,000	220,605
Rural Cellular Corp., 8.123%, 2013	355,000	358,550
Rural Cellular Corp., FRN, 8.989%, 2012	320,000	323,200
U.S. Unwired, Inc., 10%, 2012	500,000	465,000
		\$ 2,542,590
Telephone Services 0.5%		
Embarq Corp., 7.082%, 2016	\$ 160,000	\$ 159,307
Embarq Corp., 7.995%, 2036	160,000	155,000
		\$ 314,307
Tobacco 1.0%		
Alliance One International, Inc., 8.5%, 2012	\$ 295,000	\$ 275,825
Reynolds American, Inc., 7.625%, 2016	345,000	365,349
		\$ 641,174

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Transportation - Services 1.0%

Hertz Corp., 8.875%, 2014	\$ 535,000	\$ 509,588
Quality Distribution, Inc., 9%, 2010	265,000	170,925
		\$ 680,513

Utilities - Electric Power 8.5%

AES Corp., 9.375%, 2010	\$ 300,000	\$ 316,500
AES Corp., 7.75%, 2014	495,000	501,188
Dynegy Holdings, Inc., 7.5%, 2015	295,000	276,194
Dynegy Holdings, Inc., 7.125%, 2018	540,000	486,000
Edison Mission Energy, 7%, 2017	905,000	889,163
Mirant North America LLC, 7.375%, 2013	435,000	436,631
NRG Energy, Inc., 7.25%, 2014	225,000	219,656
NRG Energy, Inc., 7.375%, 2016	1,050,000	1,011,938
NRG Energy, Inc., 7.375%, 2017	245,000	235,813
NSG Holdings LLC, 7.75%, 2025 (z)	335,000	324,531
Reliant Energy, Inc., 6.75%, 2014	110,000	111,925
Reliant Energy, Inc., 7.875%, 2017	740,000	727,975

MFS Intermediate High Income Fund

PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

Issuer	Shares/Par	Value (\$)
Bonds continued		
Utilities - Electric Power continued		
Sierra Pacific Resources, 8.625%, 2014	\$ 170,000	\$ 180,775
		\$ 5,718,289
Total Bonds		\$ 83,289,327
Common Stocks 1.6%		
Broadcasting 0.1%		
Clear Channel Communications, Inc.	900	\$ 28,800
Cable TV 0.6%		
Comcast Corp., A	16,000	\$ 312,640
Time Warner Cable, Inc. (a)	3,900	106,470
		\$ 419,110
Consumer Goods & Services 0.0%		
Central Garden & Pet Co. (a)	3,100	\$ 15,283
Electronics 0.1%		
Intel Corp.	3,200	\$ 63,840
Energy - Integrated 0.2%		
Chevron Corp.	1,400	\$ 121,324
Forest & Paper Products 0.1%		
Louisiana-Pacific Corp.	4,100	\$ 44,608
Major Banks 0.1%		
Bank of America Corp.	900	\$ 35,766
JPMorgan Chase & Co.	800	32,520
		\$ 68,286
Pharmaceuticals 0.1%		
Johnson & Johnson	1,200	\$ 74,352
Telephone Services 0.3%		
Windstream Corp.	16,800	\$ 197,568
Trucking 0.0%		
Quality Distribution, Inc. (a)(z)	2,687	\$ 8,249
Total Common Stocks		\$ 1,041,420
Floating Rate Loans 9.2% (g)(r)		
Aerospace 0.7%		

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Hawker Beechcraft Acquisition Co., Letter of Credit, 6.93%, 2014 (o)	\$ 27,111	\$ 25,021
Hawker Beechcraft Acquisition Co., Term Loan, 2014 (o)	467,203	431,189

\$ 456,210

Automotive 1.6%

Allison Transmission, Inc., Term Loan B, 2014 (o)	\$ 336,735	\$ 296,327
Ford Motor Co., Term Loan B, 2013 (o)	398,990	340,851
Goodyear Tire & Rubber Co., Second Lien Term Loan, 2014 (o)	287,498	261,264
Mark IV Industries, Inc., Second Lien Term Loan, 2011 (o)	309,983	185,990

\$ 1,084,432

Broadcasting 0.6%

Univision Communications, Inc., Term Loan B, 5.49%, 2014 (o)	\$ 408,239	\$ 341,436
Young Broadcasting, Inc., Term Loan, 2012 (o)	78,460	69,633

\$ 411,069

Cable TV 0.5%

CSC Holdings, Inc., Incremental Term Loan, 2013 (o)	\$ 350,000	\$ 322,909
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MFS Intermediate High Income Fund

PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

Issuer	Shares/Par	Value (\$)		
Floating Rate Loans(g)(r) continued				
Computer Software 0.5%				
First Data Corp., Term Loan B-1, 7.6%, 2014 (o)	\$ 376,100	\$ 341,176		
Gaming & Lodging 0.2%				
Harrah's Entertainment, Inc., Term Loan B-2, 2015 (o)	\$ 166,172	\$ 152,213		
Medical & Health Technology & Services 1.2%				
Community Health Systems, Inc., Term Loan, 2014 (o)	\$ 19,154	\$ 17,495		
Community Health Systems, Inc., Term Loan B, 2014 (o)	374,517	342,071		
HCA, Inc., Term Loan B, 2013 (o)	500,000	459,599		
		\$ 819,165		
Printing & Publishing 0.4%				
Idearc, Inc., Term Loan B, 2014 (o)	\$ 33,421	\$ 27,489		
Nielsen Finance LLC, Term Loan B, 2013 (o)	225,792	199,180		
		\$ 226,669		
Retailers 0.5%				
Neiman Marcus Group, Inc., Term Loan, 7.75%, 2013	\$ 367,448	\$ 339,048		
Specialty Stores 1.1%				
Michaels Stores, Inc., Term Loan B, 7.35%, 2013 (o)	\$ 847,524	\$ 727,458		
Telecommunications - Wireless 0.9%				
Wind Acquisition Holdings Syndicated Loan, 11.2%, 2011	\$ 668,874	\$ 601,986		
Utilities - Electric Power 1.0%				
Calpine Corp., DIP Term Loan, 2009 (o)	\$ 291,817	\$ 258,866		
Texas Competitive Electric Holdings LLC, Term Loan B-3, 2014 (o)	477,257	435,166		
		\$ 694,032		
Total Floating Rate Loans		\$ 6,176,367		
	Strike Price	First Exercise		
Warrants 0.0%				
Cable TV 0.0%				
XM Satellite Radio Holdings, Inc. (8.77 shares for 1 warrant) (a)(z)	\$ 45.24	9/16/00	600	\$ 1,350
Telephone Services 0.0%				
Jazztel PLC (6 shares for 1 warrant) (a)(z)	EUR 204.6	7/05/00	350	\$ 0
Total Warrants				\$ 1,350
Short-Term Obligations 8.7% (y)				

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Cargill, Inc., 4.15%, due 3/05/08 (t)	\$ 2,007,000	\$ 2,006,075
Farmer Mac, 2%, due 3/03/08	1,159,000	1,158,871
General Electric Capital Corp., 3.13%, due 3/03/08	2,704,000	2,703,530

Total Short-Term Obligations		\$ 5,868,476
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Repurchase Agreements 4.5%

Merrill Lynch & Co., 3.20%, dated 2/29/08, due 3/03/08, total to be received \$3,041,811 (secured by various U.S. Treasury and Federal Agency obligations and Mortgage Backed securities in a jointly traded account)	\$ 3,041,000	\$ 3,041,000
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Total Investments		\$ 99,417,940
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Other Assets, Less Liabilities (48.2)%		(32,332,885)
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Net Assets 100.0%		\$ 67,085,055
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(a) Non-income producing security.

(d) Non-income producing security - in default.

(g) The rate shown represents a weighted average coupon rate on settled positions at period end.

(n) Securities exempt from registration under Rule 144A of the Securities Act of 1933. These securities may be sold in the ordinary course of business in transactions exempt from registration, normally to qualified institutional buyers. At period end, the aggregate value of these securities was \$13,150,940, representing 19.6% of net assets.

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MFS Intermediate High Income Fund

PORTFOLIO OF INVESTMENTS (Unaudited) 2/29/08 - continued

- (o) All or a portion of this position has not settled. Upon settlement date, interest rates will be determined.
- (p) Payment-in-kind security.
- (r) Remaining maturities of floating rate loans may be less than stated maturities shown as a result of contractual or optional prepayments by the borrower. Such prepayments cannot be predicted with certainty. These loans may be subject to restrictions on resale. Floating rate loans generally have rates of interest which are determined periodically by reference to a base lending rate plus a premium.
- (t) Security exempt from registration with the U.S. Securities and Exchange Commission under Section 4(2) of the Securities Act of 1933.
- (y) The rate shown represents an annualized yield at time of purchase.
- (z) Restricted securities are not registered under the Securities Act of 1933 and are subject to legal restrictions on resale. These securities generally may be resold in transactions exempt from registration or to the public if the securities are subsequently registered. Disposal of these securities may involve time-consuming negotiations and prompt sale at an acceptable price may be difficult. The fund holds the following restricted securities:

Restricted Securities	Acquisition	Acquisition Cost	Current Market Value
	Date		
Dow Jones CDX High Yield Index, 7.625%, 2012	5/07/07	\$ 1,968,862	\$ 1,842,588
Harrah's Operating Co., Inc., 10.75%, 2018	2/13/08 - 2/15/08	171,537	172,200
Jazztel PLC (6 shares for 1 warrant)	11/29/00	602	
NSG Holdings LLC, 7.75%, 2025	3/06/07 - 3/14/07	337,625	324,531
Orascom Telecom Finance S.C.A., 7.875%, 2014	2/01/07	225,000	210,083
Quality Distribution, Inc.	12/28/06		8,249
Rotavax LLC, 10.62%, 2014	6/06/06 - 2/06/07	250,901	237,091
Southwestern Energy Co., 7.5%, 2018	1/11/08 - 1/16/08	361,969	370,800
XM Satellite Radio Holdings, Inc. (8.77 shares for 1 warrant)	3/29/00 - 7/11/00	69,923	1,350
Total Restricted Securities			\$ 3,166,892

% of Net Assets 4.7%

The following abbreviations are used in this report and are defined:

CLN Credit-Linked Note
DIP Debtor-in-Possession

FRN Floating Rate Note. Interest rate resets periodically and may not be the rate reported at period end.

Abbreviations indicate amounts shown in currencies other than the U.S. dollar. All amounts are stated in U.S. dollars unless otherwise indicated. A list of abbreviations is shown below:

EUR Euro

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See attached supplemental information. For more information see notes to financial statements as disclosed in the most recent semiannual or annual report.

MFS Intermediate High Income Fund

Supplemental Information (Unaudited) 2/29/08

(1) Fair Value Disclosure

The fund adopted FASB Statement No. 157, Fair Value Measurements (the Statement) in this reporting period. This Statement provides a single definition of fair value, a hierarchy for measuring fair value and expanded disclosures about fair value measurements.

Various inputs are used in determining the value of the fund's investments. These inputs are categorized into three broad levels. Level 1 include quoted prices in active markets for identical assets or liabilities. Level 2 include other significant observable market-based inputs (including quoted prices for similar securities, interest rates, prepayment speed, credit risk, etc.). Level 3 include unobservable inputs, which may include the adviser's own assumptions in determining the fair value of investments. Other financial instruments are derivative instruments not reflected in Total Investments, such as futures, forwards, swap contracts and written options, which are valued at the unrealized appreciation/depreciation on the instrument. The following is a summary of the levels used as of February 29, 2008 in valuing the fund's assets carried at market value:

	Level 1	Level 2	Level 3	Total
Investments in Securities	\$ 1,041,420	\$ 98,388,375		\$ 99,429,795
Other Financial Instruments		(67,568)		(67,568)
Level 3 Reconciliation Disclosure				

Following is a reconciliation of Level 3 assets for which significant unobservable inputs were used to determine fair value. The table presents the activity of Level 3 securities held at the beginning and the end of the period.

	Investments in Securities	Other Financial Instruments
Balance as of 11/30/07	\$ 679,650	
Accrued discounts/premiums		
Realized gain (loss)		
Change in unrealized appreciation (depreciation)		
Net purchases (sales)		
Transfers in and/or out of Level 3	(679,650)	
Balance as of 2/29/08		
(2) Portfolio Securities		

The cost and unrealized appreciation and depreciation in the value of the investments owned by the fund, as computed on a federal income tax basis, are as follows:

Aggregate Cost	\$ 106,130,021
Gross unrealized appreciation	\$ 674,306
Gross unrealized depreciation	(7,386,387)
Net unrealized appreciation (depreciation)	\$ (6,712,081)

The aggregate cost above includes prior fiscal year end tax adjustments.

(3) Unfunded Loan Commitments

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As of February 29, 2008, the fund had unfunded loan commitments of \$14,175, which could be extended at the option of the borrower, pursuant to the following loan agreements:

Borrower	Unfunded Loan Commitment	Unrealized Appreciation (Depreciation)
Univision Communications, Inc., Delayed Draw Term Loan, 2014	\$ 14,175	\$ (745)

At February 29, 2008, the fund had sufficient cash and/or other liquid securities to cover any commitments under these contracts.

(4) Derivative Contracts at 2/29/08

Forward Foreign Currency Exchange Contracts at 2/29/08

Type	Currency	Contracts to Deliver/Receive	Settlement Date Range	In Exchange For	Contracts at Value	Net Unrealized Appreciation (Depreciation)
<u>Appreciation</u>						
Buy	EUR	353,104	3/17/2008	\$ 525,208	\$ 536,169	\$ 10,961
<u>Depreciation</u>						
Sell	EUR	1,136,874	3/17/2008	\$ 1,647,750	\$ 1,726,279	\$ (78,529)

At February 29, 2008, the fund had sufficient cash and/or other liquid securities to cover any commitments under these derivative contracts.

ITEM 2. CONTROLS AND PROCEDURES.

- (a) Based upon their evaluation of the effectiveness of the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940 (the "Act")) as conducted within 90 days of the filing date of this Form N-Q, the registrant's principal financial officer and principal executive officer have concluded that those disclosure controls and procedures provide reasonable assurance that the material information required to be disclosed by the registrant on this report is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms.
- (b) There were no changes in the registrant's internal controls over financial reporting (as defined in Rule 30a-3(d) under the Act) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

ITEM 3. EXHIBITS.

File as exhibits as part of this Form a separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the Act (17 CFR 270.30a-2): Attached hereto.

Notice

A copy of the Agreement and Declaration of Trust, as amended, of the Registrant is on file with the Secretary of State of The Commonwealth of Massachusetts and notice is hereby given that this instrument is executed on behalf of the Registrant by an officer of the Registrant as an officer and not individually and the obligations of or arising out of this instrument are not binding upon any of the Trustees or shareholders individually, but are binding only upon the assets and property of the respective constituent series of the Registrant.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Registrant: MFS INTERMEDIATE HIGH INCOME FUND

By (Signature and Title)* ROBERT J. MANNING
Robert J. Manning,

President

Date: April 14, 2008

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By (Signature and Title)* ROBERT J. MANNING
Robert J. Manning,

President (Principal Executive Officer)

Date: April 14, 2008

By (Signature and Title)* MARIA F. DWYER
Maria F. Dwyer,

Treasurer (Principal Financial Officer and Accounting Officer)

Date: April 14, 2008

* Print name and title of each signing officer under his or her signature.