

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

PIONEER HIGH INCOME TRUST
Form N-CSR
May 28, 2010

OMB APPROVAL
OMB Number: 3235-0570
Expires: August 31, 2010
Estimated average burden
hours per response.....18.9

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

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21043

Pioneer High Income Trust
(Exact name of registrant as specified in charter)

60 State Street, Boston, MA 02109
(Address of principal executive offices) (ZIP code)

Terrence J. Cullen, Pioneer Investment Management, Inc.,
60 State Street, Boston, MA 02109
(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: March 31

Date of reporting period: April 1, 2009 through March 31, 2010

Form N-CSR is to be used by management investment companies to file reports with the Commission not later than 10 days after the transmission to stockholders of any report that is required to be transmitted to stockholders under Rule 30e-1 under the Investment Company Act of 1940 (17 CFR 270.30e-1). The Commission may use the information provided on Form N-CSR in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-CSR, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-CSR unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. ss. 3507.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

ITEM 1. REPORTS TO SHAREOWNERS.

Pioneer High
Income Trust

Annual Report | March 31, 2010

Ticker Symbol: PHT

[LOGO]PIONEER
Investments (R)

visit us: pioneerinvestments.com

Table of Contents

Letter to Shareowners	2
Portfolio Management Discussion	4
Portfolio Summary	8
Prices and Distributions	9
Performance Update	10
Schedule of Investments	11
Financial Statements	36
Notes to Financial Statements	41
Report of Independent Registered Public Accounting Firm	51
Approval of Investment Advisory Agreement	54
Trustees, Officers and Service Providers	58

Pioneer High Income Trust | Annual Report | 3/31/10 1

President's Letter

Dear Shareowner,

Stock and bond markets around the globe have begun to recover over the past year from one of their most tumultuous periods in history. This is a welcome relief, and we are generally optimistic about the prospects for the economy going forward. Still, challenges remain. Unemployment is high; consumer demand and loan growth are weak; and housing has not returned to normal.

At Pioneer, we have long advocated the benefits of investing for the long term. This strategy has generally performed well for many investors. Those who remained invested in the market during the downturn have most likely seen their portfolios start to recover over the past year, as the Dow Jones Industrial Average climbed back from the depressed levels we saw in early 2009. Many bond investors have similarly seen a strong rebound, with a broad-based recovery occurring across many different fixed-income asset classes. The riskiest asset classes, such as high-yield bonds, outperformed other fixed-income asset classes during most of 2009.

At Pioneer, we are not changing the approach to investing that we have used for

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

more than 80 years. We remain focused on company fundamentals and risk management. Our investment process is based on careful research into individual companies, quantitative analysis, and active portfolio management. This three-pillared process, which we apply to each of our portfolios, is supported by an integrated team approach and is designed to carefully balance risk and reward. While we see potential opportunities for making money in many corners of the markets around the globe, it takes research and experience to separate solid investment opportunities from speculation.

Following this difficult period, many investors are rethinking their approach to investing and risk management. Some are questioning whether the basic investment principles they were taught in the past are still useful in today's markets. Complicating matters is that financial markets remain unpredictable. Our advice, as always, is to work closely with a trusted financial advisor to discuss your goals and work together to develop an investment strategy that meets your individual needs. There is no single best strategy that works for every investor.

2 Pioneer High Income Trust | Annual Report | 3/31/10

We invite you to learn more about Pioneer and our time-tested approach to investing by consulting with your financial advisor or visiting us online at www.pioneerinvestments.com. We greatly appreciate your trust in us and we thank you for investing with Pioneer.

Sincerely,

/s/Daniel K. Kingsbury

Daniel K. Kingsbury
President and CEO
Pioneer Investment Management USA, Inc.

Any information in this shareowner report regarding market or economic trends or the factors influencing the Trust's historical or future performance are statements of the opinion of Trust management as of the date of this report. These statements should not be relied upon for any other purposes. Past performance is no guarantee of future results, and there is no guarantee that market forecasts discussed will be realized.

Pioneer High Income Trust | Annual Report | 3/31/10 3

Portfolio Management Discussion | 3/31/10

Signs that the domestic and global economies were rebounding encouraged fixed-income investors to return to corporate bonds during the 12 months ended March 31, 2010. Credit-sensitive bonds had been selling at depressed levels at the start of the 12-month period. However, as the economy appeared to improve, demand increased for foreign and domestic high-yield and investment-grade corporate bonds and emerging market debt, and their prices rebounded. In the following interview, Andrew Feltus discusses the factors that influenced the performance of Pioneer High Income Trust over the 12 months ended March 31, 2010. Mr. Feltus is a member of Pioneer's fixed-income team, which is responsible for the daily management of the Trust.

Q How did Pioneer High Income Trust perform during the 12 months ended March 31, 2010?

A The Trust performed very well, helped by good security selection and the ability to use a leveraged strategy -- employing borrowed funds -- that

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

added to results in a rising environment. For the 12 months ended March 31, 2010, Pioneer High Income Trust produced a total return of 114.64% at net asset value and 119.69% at market price, with shares of the Trust selling at a 16.3% premium to net asset value at the end of the period. The Trust's benchmark, the Bank of America Merrill Lynch High Yield Master II Index (the BOFA ML Index) returned 57.22% over the same 12-month period. On March 31, 2010, the Trust's 30-day SEC yield was 11.10%.

Q What were the principal factors that contributed to the Trust's performance during the 12 months ended March 31, 2010?

A The 12-month period featured an unprecedented surge in domestic high-yield corporate bond performance. Securities rated below investment-grade were selling at distressed prices at the start of the period, consistent with default rates even higher than those seen during the Great Depression. In the ensuing months, the markets grew more confident that economic conditions were not so dire and that the economy was likely to escape from a prolonged recession. Investors moved back into the high-yield sector and prices in the group rallied. By March 31, 2010, domestic high-yield securities had recorded their best-ever performance for any 12-month period, while international high-yield, emerging market debt and investment-grade corporate securities also delivered robust returns.

Throughout the period, the Trust focused primarily on domestic high-yield bonds, which represented 65.8% of the Trust's total investment portfolio at the start of the period and 67.9% of the Trust's total investment portfolio at

4 Pioneer High Income Trust | Annual Report | 3/31/10

period end. An additional 18.4% of the Trust's investment portfolio was invested in international high-yield securities and emerging market debt, both at the beginning and end of the Trust's fiscal year.

The strong returns achieved in those sectors were amplified by the Trust's use of borrowed funds -- or leverage. The Trust was able to borrow money at low interest rates and deploy those borrowed funds into the high-yield sectors. At the start of the period on April 1, 2009, 43.6% of the Trust's portfolio was leveraged; at the end of the period on March 31, 2010, 29.1% was leveraged. The reduction in leverage reflected the increase in the value of the invested assets.

Q What were your principal strategies during the 12 months ended March 31, 2010, and how did they influence the Trust's performance results?

A The Trust maintained a broadly diversified exposure to the high-yield group. While we sought opportunities for price appreciation, we also tried to maintain dividend distributions to shareholders. We tended to place greater emphasis on the upper tiers of the high-yield universe, overweighting the Trust's portfolio in B-rated debt and de-emphasizing the lower-rated CCC group. During a period in which almost all high-yield securities appreciated in value, the Trust's broad exposure to the sector provided significant support to performance.

If there was one decision that held back results somewhat, it was the Trust's underweighting of bonds rated CCC or below. Those very low-rated securities generally performed even better than the overall high-yield sector.

Q What individual securities had a particularly noteworthy influence on the Trust's performance during the 12 months ended March 31, 2010?

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

A Over the period, we tended to tilt the Trust toward bonds of companies in more economically sensitive, or cyclical industries, such as basic materials and capital goods. Many of the investments performed particularly well over the 12-month period.

Materials holdings that fared especially well included: Lyondell, a chemicals company; Algoma, a Canadian steel corporation; and Noranda, a U.S. aluminum producer. In capital goods, two standouts were: Lear, a manufacturer of components for the automotive industry that was reorganized after filing for bankruptcy; and Commercial Vehicle Group, a manufacturer of parts for the truck industry. Bond holdings of Minerva and Grupo Bertin, two Brazilian beef companies, also snapped back in price, aided by improving conditions in emerging markets, rising commodity prices and the appreciation in value of Brazil's currency.

Pioneer High Income Trust | Annual Report | 3/31/10 5

At the start of the period, we generally avoided the debt of financial corporations, as firms in that sector were under severe stress because of the credit crisis. However, when many investment-grade financial firms saw their credit ratings downgraded, our fundamental credit research revealed new opportunities. We raised the Trust's allocation to financial industry bonds from approximately 4.5% of the investment portfolio at the start of the period, to about 10% of the investment portfolio by the period's end. Many of the Trust's financials holdings performed particularly well, adding to the Trust's gains for the period. Individual contributors included securities of Wells Fargo, State Street, PNC Financial, and Goldman Sachs.

On the negative side, the Trust's investments in securities from the health care and utilities sectors, two less-cyclical groups, tended to underperform the overall market, despite producing positive returns of 30% or better during the year.

Also, even during a year of generally robust returns, some of the Trust's individual investments performed poorly. The underperforming securities included those backed by the Little Traverse Bay Native American casino in Michigan, which defaulted, and Pegasystems, a software producer which also defaulted on its bonds in January 2010 and is undergoing a restructuring.

Q What is your investment outlook?

A We see a period of sustained economic growth and rising corporate profits during 2010, which should continue to support high-yield valuations. In the domestic economy, we think the troubled housing market should stabilize and retail sales and employment should start increasing, although improvement is likely to be moderate. However, the yield spreads -- or yield advantages over Treasuries -- of lower-rated securities now appear close to the long-term market averages. Therefore, shareowners should not expect a repeat of the results of the past 12 months.

We do have to be cautious, though, with the Federal Reserve Board potentially poised to start raising short-term interest rates should inflationary pressures start increasing.

In this environment, fundamental analysis and individual security selection should be increasingly important to achieving good performance. We think this type of market plays to Pioneer's long-term strengths in both credit research and fundamental analysis.

Please refer to the Schedule of Investments on pages 11-35 for a full listing of

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Trust securities.

6 Pioneer High Income Trust | Annual Report | 3/31/10

Investments in high-yield or lower-rated securities are subject to greater-than-average risk. The Trust may invest in securities of issuers that are in default or that are in bankruptcy.

Investing in foreign and/or emerging markets securities involves risks relating to interest rates, currency exchange rates, economic, and political conditions.

When interest rates rise, the prices of fixed-income securities in the Trust will generally fall. Conversely, when interest rates fall the prices of fixed-income securities in the Trust will generally rise. Investments in the Trust are subject to possible loss due to the financial failure of underlying securities and their inability to meet their debt obligations.

The Trust may invest up to 50% of its total assets in illiquid securities. Illiquid securities may be difficult to dispose of at a fair price at the times when the Trust believes it is desirable to do so and their market price is generally more volatile than that of more liquid securities. Illiquid securities are also more difficult to value and investment of the Trust's assets in illiquid securities may restrict the Trust's ability to take advantage of market opportunities.

The Trust uses leverage through the issuance of preferred shares. Leverage creates significant risks, including the risk that the Trust's income or capital appreciation will not be sufficient to cover the cost of leverage, which may adversely affect the return for the holders of common shares. Since February of 2008, regularly scheduled auctions for the Trust's preferred shares have failed and preferred shareowners have not been able to sell their shares at auction. The Board of Trustees of the Trust has considered, and continues to consider, this issue.

The Trust is required to maintain certain regulatory and rating agency asset coverage requirements in connection with its outstanding preferred shares. In order to maintain required asset coverage levels, the Trust may be required to alter the composition of its investment portfolio or take other actions, such as redeeming preferred shares with the proceeds from portfolio transactions, at what might be inopportune times in the market. Such actions could reduce the net earnings or returns to holders of the Trust's common shares over time.

Risks of investing in the Trust are discussed in greater detail in the Trust's original offering documents relating to its common shares and shareowner reports issued from time to time.

Past performance is no guarantee of future results, and there is no guarantee that market forecasts discussed will be realized.

Any information in this shareowner report regarding market or economic trends or the factors influencing the Trust's historical or future performance are statements of the opinion of Trust management as of the date of this report. These statements should not be relied upon for any other purposes.

Pioneer High Income Trust | Annual Report | 3/31/10 7

Portfolio Summary | 3/31/10

Portfolio Diversification

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

(As a percentage of total investment portfolio)

[THE FOLLOWING DATA IS A REPRESENTATION OF A PIE CHART IN THE PRINTED MATERIAL]

Corporate Bonds & Notes	75.1%
Temporary Cash Investments	6.9%
Convertible Bonds	5.2%
Municipal Bonds	3.8%
Common Stock	2.0%
Asset Backed Securities	1.8%
Floating Rate Loan Interests	1.4%
Sovereign Debt Obligations	1.3%
Collateralized Mortgage Obligations	1.1%
Convertible Preferred Stock	0.6%
Municipal Collateralized Debt Obligations	0.4%
Fixed Rate Loan Interests	0.2%
Rights/Warrants	0.2%

Portfolio Maturity

(As a percentage of long-term holdings)

[THE FOLLOWING DATA IS A REPRESENTATION OF A PIE CHART IN THE PRINTED MATERIAL]

0-1 Year	11.2%
1-3 Years	27.3%
3-4 Years	31.8%
4-6 Years	22.0%
6-8 Years	2.2%
8+ Years	5.5%

10 Largest Holdings

(As a percentage of long-term holdings)*

1. Xerox Capital Trust I, 8.0%, 2/1/27	2.32%
2. NCO Group, Inc., 11.875%, 11/15/14	1.65
3. Cia Brasileira de Bebida, 10.5%, 12/15/11	1.35
4. Cricket Communications, Inc., 9.375%, 11/1/14	1.30
5. Waste Services, Inc., 9.5%, 4/15/14	1.20
6. Exopack Holding Corp., 11.25%, 2/1/14	1.14
7. Graphic Packaging International, Inc., 9.5%, 8/15/13	1.14
8. PetroQuest Energy, Inc., 10.375%, 5/15/12	1.07
9. Kabel Deutschland GMBH, 10.75%, 7/1/14	1.07
10. Allmerica Financial Corp., 7.625%, 10/15/25	1.02

* This list excludes temporary cash and derivative investments. The portfolio is actively managed, and current holdings may be different. The holdings listed should not be considered recommendations to buy or sell any security listed.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Prices and Distributions | 10/31/10

Market Value per Common Share

	3/31/10	3/31/09
	\$ 15.38	\$ 8.03

Net Asset Value per Common Share

	3/31/10	3/31/09
	\$ 13.23	\$ 7.07

Distributions per Common Share

	Net Investment Income	Short-Term Capital Gains	Long-Term Capital Gains
4/1/09-3/31/10	\$ 1.6500	\$ --	\$ --

Pioneer High Income Trust | Annual Report | 3/31/10 9

Performance Update | 3/31/10

Investment Returns

The mountain chart on the right shows the change in market value, plus reinvested dividends and distributions, of a \$10,000 investment made in common shares of Pioneer High Income Trust, compared to that of the Bank of America Merrill Lynch High Yield Master II Index.

Cumulative Total Returns
(As of March 31, 2010)

	Net Asset	Market
--	-----------	--------

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Period	Value (NAV)	Price

Life-of-Trust		
(4/26/02)	147.43%	174.78%
5 Years	57.00	97.25
1 Year	114.64	119.69

[THE FOLLOWING DATA IS A REPRESENTATION OF A MOUNTAIN CHART IN THE PRINTED MATERIAL]

Value of \$10,000 Investment

	Pioneer High Income Trust	Bank of America Merrill Lynch High Yield Master II Index
4/02	\$10,000	\$10,000
	\$10,409	\$10,169
3/04	\$13,980	\$12,428
	\$15,758	\$13,291
3/06	\$17,478	\$14,252
	\$19,957	\$15,903
3/08	\$18,476	\$15,344
	\$11,527	\$12,233
3/10	\$27,477	\$19,232

Call 1-800-225-6292 or visit www.pioneerinvestments.com for the most recent month-end performance results. Current performance may be lower or higher than the performance data quoted.

Performance data shown represents past performance. Past performance is no guarantee of future results. Investment return and market price will fluctuate, and your shares may trade below net asset value (NAV), due to such factors as interest rate changes and the perceived credit quality of borrowers.

Total investment return does not reflect broker sales charges or commissions. All performance is for common shares of the Trust.

Closed-end funds, unlike open-end funds, are not continuously offered. There is a one-time public offering and, once issued, shares of closed-end funds are sold in the open market through a stock exchange and frequently trade at prices lower than their NAV. NAV per common share is total assets less total liabilities, which includes preferred shares, divided by the number of common shares outstanding.

When NAV is lower than market price, dividends are assumed to be reinvested at the greater of NAV or 95% of the market price. When NAV is higher, dividends are assumed to be reinvested at prices obtained under the Trust's dividend reinvestment plan.

The performance table and graph do not reflect the deduction of fees and taxes that a shareowner would pay on Trust distributions or the sale of Trust shares.

Index comparison begins April 30, 2002. The Bank of America Merrill Lynch High Yield Master II Index is a commonly accepted measure of the performance of high yield securities. Index returns are calculated monthly, assume reinvestment of dividends and, unlike Trust returns, do not reflect any fees, expenses or sales

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

charges. The Index is not leveraged. You cannot invest directly in the Index.

10 Pioneer High Income Trust | Annual Report | 3/31/10

Schedule of Investments | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)		Value

		ASSET BACKED SECURITIES -- 2.6% of Net Assets	
		TRANSPORTATION -- 0.1%	
		Airlines -- 0.1%	
256,736	B/B1	Continental Airlines, Inc., Series B, 8.499%, 11/1/12	\$ 2
		Total Transportation	\$ 2

		BANKS -- 1.1%	
		Thrifts & Mortgage Finance -- 1.1%	
606,923 (a)	AA/Aa2	ACE Securities Corp., 0.696%, 4/25/35	\$ 5
531,442 (a)	AA+/Aa1	ACE Securities Corp., 0.846%, 12/25/34	3
385,936 (a)	B-/Ba1	Amortizing Residential Collateral Trust, 1.521%, 1/25/32	1
1,069,134 (a)	BB/Ba3	Aviation Capital Group Trust, 0.71%, 11/15/25 (144A)	5
280,000 (a)	CCC/Baa2	Bear Stearns Asset Backed Securities Trust, 0.696%, 1/25/47	
215,232 (a)	AAA/A2	FBR Securitization Trust, 0.596%, 10/25/35	1
965,000 (a)	BBB/Ba1	Home Equity Asset Trust, 0.356%, 3/25/37	7
643,766 (a)	BB-/A2	Morgan Stanley Capital, Inc., 0.356%, 2/25/37	5
324,951 (a)	B/Baa2	Morgan Stanley Capital, Inc., 0.356%, 2/25/37	2
439,208 (a)	B-/Baa1	Residential Asset Securities Corp., 0.476%, 1/25/36	3
		Total Banks	\$ 3,9

		DIVERSIFIED FINANCIALS -- 0.4%	
		Other Diversified Financial Services -- 0.2%	
1,988,500 (a)	B/Caa1	Aircraft Finance Trust, 0.71%, 5/15/24 (144A)	\$ 7
239,283 (a)	BB-/Ba3	Aircraft Finance Trust, 0.73%, 5/15/24 (144A)	1
			\$ 9

		Specialized Finance -- 0.2%	
850,000	BBB-/Baa3	Dominos Pizza Master Issuer LLC, 5.261%, 4/25/37 (144A)	\$ 7
		Total Diversified Financials	\$ 1,7

		UTILITIES -- 1.0%	
		Multi-Utilities -- 1.0%	
3,868,223	NR/NR	Ormat Funding Corp., 8.25%, 12/30/20	\$ 3,7
		Total Utilities	\$ 3,7

		TOTAL ASSET BACKED SECURITIES (Cost \$9,356,599)	\$ 9,5

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

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

Pioneer High Income Trust | Annual Report | 3/31/10 11

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)		Value
		COLLATERALIZED MORTGAGE BACKED SECURITIES -- 1.7% of Net Assets	
		CONSUMER SERVICES -- 0.4%	
		Restaurants -- 0.4%	
300,000	BBB-/Baa3	DB Master Finance LLC, 5.779%, 6/20/31 (144A)	\$ 2
1,245,000	BB/Ba3	DB Master Finance LLC, 8.285%, 6/20/31 (144A)	1,1
		Total Consumer Services	\$ 1,4
		BANKS -- 1.3%	
		Thrifts & Mortgage Finance -- 1.3%	
835,000 (a)	A/Ba3	Carrington Mortgage Loan Trust, 0.346%, 10/25/36	\$ 6
591,461 (a)	AA+/Ba3	Carrington Mortgage Loan Trust, 0.366%, 2/25/37	5
1,504,000 (a)	BBB+/B3	Carrington Mortgage Loan Trust, 0.446%, 2/25/37	8
202,677 (a)	A/NR	Chase Commercial Mortgage Securities Corp., 8.348%, 4/15/32	2
391,707 (a)	CCC/Ba2	Countrywide Alternative Loan Trust, 0.576%, 10/25/35	2
461,759 (a)	B/Baa3	Countrywide Alternative Loan Trust, 0.596%, 9/25/35	2
647,504 (a)	CCC/B3	Countrywide Alternative Loan Trust, 0.606%, 1/25/36	1
286,745 (a)	CCC/Ba1	Countrywide Home Loan Mortgage Pass Through Trust, 0.606%, 3/25/35	
516,970 (a)	B+/B1	JPMorgan Mortgage Trust, 4.954%, 11/25/35	4
1,536,636 (a)	CC/Ca	Luminent Mortgage Trust, 0.506%, 7/25/36	1
391,038 (a)	BBB-/Baa1	Structured Asset Mortgage Investments, Inc., 0.556%, 9/25/45	2
891,403 (a)	AAA/Aa1	WaMu Mortgage Pass Through Certificates, 0.476%, 4/25/45	7
		Total Banks	\$ 4,6
		TOTAL COLLATERALIZED MORTGAGE OBLIGATIONS (Cost \$7,417,643)	\$ 6,0
		CORPORATE BONDS & NOTES -- 109.8% of Net Assets	
		ENERGY -- 12.0%	
		Coal & Consumable Fuels -- 1.2%	
1,350,000	BB/Ba3	Bumi Capital Pte, Ltd., 12.0%, 11/10/16 (144A)	\$ 1,4
2,329,000	BB-/B1	Drummond Co., Inc., 9.0%, 10/15/14 (144A)	2,3
640,000	B+/Caal	Murray Energy Corp., 10.25%, 10/15/15 (144A)	6
			\$ 4,5

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		Oil & Gas Drilling -- 1.4%		
2,982,936	NR/NR	DDI Holding AS, 9.3%, 1/19/12 (144A)		\$ 2,8
500,000	B/B2	Hercules Offshore, Inc., 10.5%, 10/15/17 (144A)		4
1,900,000	B/B3	Pioneer Drilling Co., 9.875%, 3/15/18 (144A)		1,8
				\$ 5,2

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

12 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
		Oil & Gas Equipment & Services -- 2.3%
3,000,000	B-/B3	Aquilex Holdings LLC/Aquilex Finance Corp., 11.125%, 12/15/16 (144A)
600,000 (a) (b)	NR/NR	DP Producer AS, 0.0%, 12/5/11 (144A)
865,000	B+/B1	Expro Finance Luxembourg SCA, 8.5%, 12/15/16 (144A)
238,581 (b)	NR/NR	Nexus 1 Pte, Ltd., 10.5%, 3/7/12 (144A)
NOK style="text-align: right;">4,600,000 (b)	NR/NR	Petrojack AS, 11.0%, 4/19/10
385,386 (a) (b)	NR/NR	PetroProd, Ltd., 0.0%, 1/12/12 (144A)
400,000 (a)	NR/NR	Sevan Marine ASA, 3.524%, 5/14/13 (144A)
2,500,000	NR/NR	Sevan Marine ASA, 9.25%, 12/20/11 (144A)
1,806,000	NR/NR	Skeie Drilling & Production ASA, 11.25%, 3/8/13 (144A)
Oil & Gas Exploration & Production -- 5.8%		
775,000	B+/B2	Berry Petroleum Co., 10.25%, 6/1/14
390,000	BB/B1	Denbury Resources, Inc., 9.75%, 3/1/16
1,750,000	BB-/B2	Hilcorp Energy I LP, 9.0%, 6/1/16 (144A)
1,045,000	B/B3	Linn Energy LLC, 11.75%, 5/15/17 (144A)
2,020,000	B+/B3	Mariner Energy, Inc., 11.75%, 6/30/16
2,500,000	NR/NR	Norse Energy Corp. ASA, 6.5%, 7/14/11 (144A)
NOK style="text-align: right;">3,000,000	NR/NR	Norse Energy Corp. ASA, 10.0%, 7/13/10
NOK style="text-align: right;">5,000,000	NR/NR	Norwegian Energy Co. AS, 12.9%, 11/20/14
945,000	B/B3	PetroHawk Energy Corp., 9.125%, 7/15/13
5,300,000	B/Caa1	PetroQuest Energy, Inc., 10.375%, 5/15/12
3,660,000	B-/B3	Quicksilver Resources, Inc., 7.125%, 4/1/16
1,250,000 (c)	B+/B3	SandRidge Energy, Inc., 8.625%, 4/1/15
Oil & Gas Refining & Marketing -- 1.0%		
1,000,000	BB-/B3	Coffeyville Resources LLC, 10.875%, 4/1/17 (144A)
175,000	B/B2	Petroplus Finance, Ltd., 7.0%, 5/1/17 (144A)
2,215,000	BB+/Ba1	Tesoro Corp., 9.75%, 6/1/19

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		Oil & Gas Storage & Transportation -- 0.3%
350,000 (a)	BB/Ba1	Enterprise Products Operating LLC, 8.375%, 8/1/66
945,000 (a)	BB/Ba1	Southern Union Co., 7.2%, 11/1/66

Total Energy

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

Pioneer High Income Trust | Annual Report | 3/31/10 13

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
MATERIALS -- 17.4%		
Aluminum -- 0.2%		
1,200,000 (b)	NR/NR	Asia Aluminum Holdings, Ltd., 8.0%, 12/23/11 (144A)
753,411 (a) (c)	CCC/Caa1	Noranda Aluminum Acquisition Corp., 5.274%, 5/15/15
Commodity Chemicals -- 2.9%		
2,240,000 (b)	NR/NR	ARCO Chemical Co., 9.8%, 2/1/20
3,250,000	NR/NR	Basell Finance Co., 8.1%, 3/15/27 (144A)
1,000,000	B/Ba3	Invista, 9.25%, 5/1/12 (144A)
4,500,000	BBB-/Ba1	Methanex Corp., 8.75%, 8/15/12
EURO 540,000 (b)	NR/NR	Nell AF S.a.r.l., 8.375%, 8/15/15 (144A)
Construction Materials -- 0.1%		
585,000 (n)	C/Caa3	U.S. Concrete, Inc., 8.375%, 4/1/14
Diversified Chemicals -- 0.3%		
EURO 350,000	CCC-/Caa3	Ineos Group Holdings Plc, 7.875%, 2/15/16 (144A)
925,000	CCC-/Caa3	Ineos Group Holdings Plc, 8.5%, 2/15/16 (144A)
Diversified Metals & Mining -- 2.5%		
1,288,533 (c)	NR/NR	Blaze Recycling & Metals LLC, 13.0%, 7/16/12
2,890,000	B/B2	FMG Finance Pty., Ltd., 10.625%, 9/1/16 (144A)
4,070,000	BB+/Ba1	Teck Resources, Ltd., 10.25%, 5/15/16
Forest Products -- 0.5%		
1,584,000	BB/Ba2	Sino-Forest Corp., 10.25%, 7/28/14 (144A)

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

5,690,000	CCC+/B3	Materials -- 1.3% AGY Holding Corp., 11.0%, 11/15/14
2,500,000	CCC+/B2	Metal & Glass Containers -- 0.7% AEP Industries, Inc., 7.875%, 3/15/13
2,225,838 (d)	NR/NR	Paper Packaging -- 3.4% Corp Durango SAB de CV, 6.0%, 8/27/16
2,795,000	CCC+/Caa1	Graham Packaging Co., 9.875%, 10/15/14
5,540,000 (n)	B-/B3	Graphic Packaging International, Inc., 9.5%, 8/15/13
2,250,000	B/NR	U.S. Corrugated, Inc., 10.0%, 6/1/13

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

14 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
2,000,000	B+/B1	Paper Products -- 2.4% Appleton Papers, Inc., 10.5%, 6/15/15 (144A)
645,000	B+/B1	Cellu Tissue Holdings, Inc., 11.5%, 6/1/14
405,000	BB/Ba3	Clearwater Paper Corp., 10.625%, 6/15/16 (144A)
5,450,000	B-/B3	Exopack Holding Corp., 11.25%, 2/1/14
3,000,000 (n)	CCC+/Caa1	Specialty Chemicals -- 0.8% Hexion U.S. Finance Corp., 9.75%, 11/15/14
4,660,000 (n)	CCC+/Caa2	Steel -- 2.3% Algoma Acquisition Corp., 9.875%, 6/15/15 (144A)
2,400,000	BB+/Ba1	CSN Islands VIII Corp., 9.75%, 12/16/13 (144A)
1,250,000	B/B3	Severstal Columbus LLC, 10.25%, 2/15/18 (144A)
Total Materials		
3,600,000	B-/NR	CAPITAL GOODS -- 9.0% Aerospace & Defense -- 1.9% Aeroflex, Inc., 11.75%, 2/15/15
1,465,000	BB/Ba3	BE Aerospace, Inc., 8.5%, 7/1/18
620,000	BB+/Ba2	Bombardier, Inc., 8.0%, 11/15/14 (144A)
570,000	BB/Ba3	DigitalGlobe, Inc., 10.5%, 5/1/14 (144A)
295,000	B/B1	GeoEye, Inc., 9.625%, 10/1/15 (144A)
Building Products -- 0.8%		

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

1,935,000 (b)	NR/Ca	Industrias Unidas SA de CV, 11.5%, 11/15/16 (144A)
1,790,000	B-/B3	Intcomex, Inc., 13.25%, 12/15/14 (144A)

570,000	BB-/Caa1	Construction & Farm Machinery & Heavy Trucks -- 2.5%
3,250,000	CCC/Caa3	American Railcar Industries, Inc., 7.5%, 3/1/14
3,975,000	B/B3	Commercial Vehicle Group, Inc., 8.0%, 7/1/13
1,524,000	BB-/Caa1	Hawk Corp., 8.75%, 11/1/14
275,000	B-/B2	Manitowoc Co., Inc., 9.5%, 2/15/18
		Titan International, Inc., 8.0%, 1/15/12

3,180,000 (b)	NR/NR	Industrial Conglomerates -- 0.9%
3,889,000 (o)	CCC+/Caa2	Indalex Holding Corp., 11.5%, 2/1/14
		Park-Ohio Industries, Inc., 8.375%, 11/15/14

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

Pioneer High Income Trust | Annual Report | 3/31/10 15

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
2,440,000	B-/NR	Industrial Machinery -- 1.9%
5,170,000	B-/B3	Industrias Metalurgicas Pescarmona SA, 11.25%, 10/22/14 (144A)
		Mueller Water Products, Inc., 7.375%, 6/1/17
500,000	B/B3	Trading Companies & Distributors -- 1.0%
3,370,000	B/B1	Avis Budget Car Rental LLC/Avis Budget Finance, Inc., 9.625%, 3/15/18 (144A)
		Wesco Distribution, Inc., 7.5%, 10/15/17
		Total Capital Goods
2,560,000	B/B2	COMMERCIAL & PROFESSIONAL SERVICES -- 6.5%
		Commercial Printing -- 0.7%
		Sheridan Acquisition Corp., 10.25%, 8/15/11
4,450 (e)	NR/B3	Diversified Support Services -- 0.9%
		MSX International UK, 12.5%, 4/1/12 (144A)

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

	2,180,000 (b) (n)	NR/NR	Environmental & Facilities Services -- 1.7%
	315,000	B+/B2	Aleris International, Inc., 10.0%, 12/15/16
	1,275,000 (a) (b)	NR/NR	Casella Waste Systems, Inc., 11.0%, 7/15/14 (144A)
	5,800,000 (n)	B-/Caa1	Ohio Air Quality Development Authority Revenue, 7.29%, 6/8/22 (144A)
			Waste Services, Inc., 9.5%, 4/15/14
<hr/>			
	11,830,000	BB/Baa3	Office Services & Supplies -- 3.2%
			Xerox Capital Trust I, 8.0%, 2/1/27
			Total Commercial & Professional Services
<hr/>			
			TRANSPORTATION -- 2.2%
			Air Freight & Logistics -- 1.2%
EURO	272,000	CCC-/Caa3	CEVA Group Plc, 10.0%, 12/1/16 (144A)
	3,351,000	CCC/Caa1	CEVA Group Plc, 11.5%, 4/1/18 (144A)
	720,000	CCC/Caa1	CEVA Group Plc, 11.625%, 10/1/16 (144A)
<hr/>			
			Airlines -- 0.9%
	965,000	BB-/Ba2	Delta Airlines, Inc., 9.5%, 9/15/14 (144A)
	2,090,000	CCC+/B2	Delta Airlines, Inc., 12.25%, 3/15/15 (144A)
<hr/>			
			Railroads -- 0.1%
	393,000	B+/B2	Kansas City Southern de Mexico, 9.375%, 5/1/12
			Total Transportation

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

16 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)		Value
		AUTOMOBILES & COMPONENTS -- 4.2%	
		Auto Parts & Equipment -- 3.8%	
1,250,000 (n)	CCC+/Caa2	Allison Transmission, Inc., 11.0%, 11/1/15 (144A)	\$ 1,3
2,761,300 (c)	CCC+/Caa2	Allison Transmission, Inc., 11.25%, 11/1/15 (144A)	2,9
4,760,000	CCC/Caa1	Stanadyne Corp., 10.0%, 8/15/14	4,3
1,500,000 (d)	CCC-/Caa3	Stanadyne Corp., 12.0%, 2/15/15	1,1
4,235,000 (n)	CCC+/Caa2	Tenneco Automotive, Inc., 8.625%, 11/15/14	4,2
			<hr/>
			\$ 14,0
<hr/>			
		Tires & Rubber -- 0.4%	
1,165,000 (n)	B+/B1	Goodyear Tire & Rubber Co., 10.5%, 5/15/16	\$ 1,2

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		Total Automobiles & Components	\$ 15,3

		CONSUMER DURABLES & APPAREL -- 2.6%	
		Homebuilding -- 0.8%	
3,060,000	B+/B1	Meritage Homes Corp., 6.25%, 3/15/15	\$ 2,9

		Housewares & Specialities -- 1.8%	
1,435,000	B/B3	Jarden Corp., 7.5%, 5/1/17	\$ 1,4
3,690,000 (n)	B-/B3	Yankee Acquisition Corp., 8.5%, 2/15/15	3,8
1,500,000 (n)	CCC+/Caa1	Yankee Acquisition Corp., 9.75%, 2/15/17	1,5

			\$ 6,8

		Total Consumer Durables & Apparel	\$ 9,7

		CONSUMER SERVICES -- 3.0%	
		Casinos & Gaming -- 1.6%	
1,650,000 (b)	NR/NR	Buffalo Thunder Development Authority, 9.375%, 12/15/14 (144A)	\$ 2
975,000	B/B3	FireKeepers Development Authority, 13.875%, 5/1/15 (144A)	1,1
630,000	B/B3	Galaxy Entertainment Finance Co., Ltd., 9.875%, 12/15/12 (144A)	6
4,500,000 (b)	NR/Ca	Little Traverse Bay Bands of Odawa Indians, 10.25%, 2/15/14 (144A)	1,0
1,375,000 (b)	NR/NR	Mashantucket Western Pequot Tribe, 8.5%, 11/15/15 (144A)	3
1,585,000	B+/B2	Pokagon Gaming Authority, 10.375%, 6/15/14 (144A)	1,6
275,000	BB-/B1	Scientific Games International, Inc., 9.25%, 6/15/19	2
740,000	B-/Caa1	Shingle Springs Tribal Gaming Authority, 9.375%, 6/15/15 (144A)	6

			\$ 5,9

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

Pioneer High Income Trust | Annual Report | 3/31/10 17

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
1,750,000	B-/B3	Specialized Consumer Services -- 1.4%
3,195,000 (d)	B/B3	StoneMor Operating LLC/Cornerstone Family Services/ Osiris Holdings, 10.25%, 12/1/17 (144A) Visant Holding Corp., 10.25%, 12/1/13
		Total Consumer Services

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

			MEDIA -- 8.7%
			Advertising -- 1.5%
2,690,000	B+/B2		MDC Partners, Inc., 11.0%, 11/1/16 (144A)
2,600,000	B-/Caa2		Sitel LLC/Sitel Finance Corp., 11.5%, 4/1/18 (144A)

			Broadcasting -- 5.4%
1,096,054	B/B2		CCH II LLC/CCH II Capital Corp., 13.5%, 11/30/16
970,000	B/B1		Hughes Network Systems LLC, 9.5%, 4/15/14
4,320,000	B/B1		Hughes Network Systems LLC, 9.5%, 4/15/14
3,320,312 (c)	CCC+/Caa3		Intelsat Bermuda, Ltd., 11.5%, 2/4/17
2,500,000	BB-/B3		Intelsat Corp., 9.25%, 6/15/16
1,000,000	B+/B3		Intelsat Subsidiary Holding Co., Ltd., 8.5%, 1/15/13
535,000	B-/Caa1		Telesat Canada, 11.0%, 11/1/15
800,000	B-/Caa1		Telesat Canada, 12.5%, 11/1/17
5,112,294 (c) (n)	CCC/Caa2		Univision Communications, Inc., 9.75%, 3/15/15 (144A)

			Cable & Satellite -- 1.4%
EURO 3,750,000	B+/B2		Kabel Deutschland GMBH, 10.75%, 7/1/14

			Publishing -- 0.4%
1,400,000	CCC+/Caa2		TL Acquisitions, Inc., 10.5%, 1/15/15 (144A)
			Total Media

			RETAILING -- 3.8%
			Automotive Retailing -- 1.0%
3,475,000	B-/Caa1		Sonic Automotive, Inc., 8.625%, 8/15/13

			Distributors -- 0.1%
475,000 (n)	B-/B3		Minerva Overseas II, Ltd., 10.875%, 11/15/19 (144A)

			Internet Retailing -- 1.3%
4,340,000	BB-/Ba3		Ticketmaster Entertainment, Inc., 10.75%, 8/1/16

			Specialty Stores -- 1.4%
4,615,000 (n)	B-/Caa1		Sally Holdings LLC, 10.5%, 11/15/16
			Total Retailing

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

18 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	Value

FOOD, BEVERAGE & TOBACCO -- 4.2%

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

5,885,000	BBB+/Baa1	Brewers -- 1.8% Cia Brasileira de Bebida, 10.5%, 12/15/11	\$ 6,7
775,000	B-/B1	Packaged Foods & Meats -- 1.4% Bertin, Ltd., 10.25%, 10/5/16 (144A)	\$ 8
1,500,000	B-/B3	FAGE Dairy Industry SA/FAGE USA Dairy Industry, Inc., 9.875%, 2/1/20 (144A)	1,3
500,000	B+/B1	Marfrig Overseas, Ltd., 9.625%, 11/16/16 (144A)	5
2,410,000	B-/B3	Minerva Overseas, Ltd., 9.5%, 2/1/17 (144A)	2,4
			\$ 5,2
3,450,000	B+/B2	Tobacco -- 1.0% Alliance One International, Inc., 10.0%, 7/15/16 (144A)	\$ 3,6
		Total Food, Beverage & Tobacco	\$ 15,6
1,050,000	B-/B3	HOUSEHOLD & PERSONAL PRODUCTS -- 0.3% Personal Products -- 0.3% Revlon Consumer Products Corp., 9.75%, 11/15/15 (144A)	\$ 1,0
		Total Household & Personal Products	\$ 1,0
2,875,000	CCC+/Caa2	HEALTH CARE EQUIPMENT & SERVICES -- 6.3% Health Care Equipment & Services -- 0.8% Accellent, Inc., 10.5%, 12/1/13	\$ 2,9
535,000	B-/Caa1	Health Care Facilities -- 2.1% HCA, Inc., 6.25%, 2/15/13	\$ 5
3,308,147 (c)	BB-/B2	HCA, Inc., 9.625%, 11/15/16	3,5
110,000	BB-/B2	HCA, Inc., 9.875%, 2/15/17 (144A)	1
3,725,000	CCC+/Caa1	Surgical Care Affiliates, Inc., 10.0%, 7/15/17 (144A)	3,7
			\$ 7,9
1,105,000	B+/Ba2	Health Care Services -- 0.5% AMR HoldCo, 10.0%, 2/15/15	\$ 1,1
601,000	B-/B3	BioScrip, Inc., 10.25%, 10/1/15 (144A)	6
			\$ 1,7
1,000,000	B/Caa1	Health Care Supplies -- 1.7% Bausch & Lomb, Inc., 9.875%, 11/1/15	\$ 1,0
4,085,000 (c)	B-/B3	Biomet, Inc., 10.375%, 10/15/17	4,4
615,000	B-/B3	Inverness Medical Innovations, Inc., 9.0%, 5/15/16	6
			\$ 6,1
4,400,000	B-/Caa1	Managed Health Care -- 1.2% Multiplan, Inc., 10.375%, 4/15/16 (144A)	\$ 4,5
		Total Health Care Equipment & Services	\$ 23,2

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

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)		Valu
		PHARMACEUTICALS & BIOTECHNOLOGY & LIFE SCIENCES -- 1.7%	
		Life Sciences Tools & Services -- 0.5%	
915,000 (c)	B/Caa1	Catalent Pharma Solutions, Inc., 9.5%, 4/15/15	\$
925,000	B+/B3	PharmaNet Development Group, Inc., 10.875%, 4/15/17 (144A)	\$
			\$
		Pharmaceuticals -- 1.2%	
1,050,000	B/B2	Phibro Animal Health Corp., 10.0%, 8/1/13 (144A)	\$
3,070,000	CCC+/Caa1	Phibro Animal Health Corp., 13.0%, 8/1/14 (144A)	\$
			\$
		Total Pharmaceuticals & Biotechnology & Life Sciences	\$
		BANKS -- 1.2%	
		Diversified Banks -- 0.1%	
400,000 (a)	NR/Ba2	Banco Macro SA, 10.75%, 6/7/12	\$
			\$
		Regional Banks -- 1.1%	
1,225,000 (a) (f)	BBB/Baa3	PNC Financial Services Group, Inc., 8.25%	\$
1,790,000 (a)	BBB+/Baa1	State Street Capital Trust III, 8.25%, 3/15/42	\$
750,000 (a) (f)	A-/Ba1	Wells Fargo Capital XV, 9.75%	\$
			\$
		Total Banks	\$
		DIVERSIFIED FINANCIALS -- 4.7%	
		Asset Management & Custody Banks -- 0.4%	
575,000 (a)	BB+/Baa3	Janus Capital Group, Inc., 6.5%, 6/15/12	\$
975,000 (a)	BB+/Baa3	Janus Capital Group, Inc., 6.95%, 6/15/17	\$
			\$
		Consumer Finance -- 0.5%	
1,750,000	B-/B1	Ford Motor Credit Co., LLC, 7.875%, 6/15/10	\$
			\$
		Investment Banking & Brokerage -- 0.4%	
300,000	B/NR	Cemex Finance LLC, 9.5%, 12/14/16 (144A)	\$
1,325,000 (a) (f)	BBB/Baa2	Goldman Sachs Capital II, 5.793%	\$
			\$
		Other Diversified Financial Services -- 0.1%	
250,000 (a)	BB-/NR	Ibis Re, Ltd., 10.507%, 5/10/12 (144A)	\$
			\$
		Specialized Finance -- 3.3%	
2,830,000	B-/Caa1	ACE Cash Express, Inc., 10.25%, 10/1/14 (144A)	\$

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

500,000	BB/Baa3	Capital One Capital V, 10.25%, 8/15/39
300,000 (a)	B-/NR	Montana Re, Ltd., 13.502%, 12/7/12 (144A)
695,000	B+/B2	National Money Mart Co., 10.375%, 12/15/16 (144A)

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

20 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
9,000,000	CCC+/Caa1	Specialized Finance -- (continued) NCO Group, Inc., 11.875%, 11/15/14
Total Diversified Financials		
3,305,000	CCC/Caa1	INSURANCE -- 6.5%
100,000	CCC+/B3	Insurance Brokers -- 2.8%
4,455,000	CCC+/Caa1	Alliant Holdings I, Inc., 11.0%, 5/1/15 (144A)
1,249,000 (a)	CCC/B3	HUB International Holdings, Inc., 9.0%, 12/15/14 (144A)
1,610,000 (n)	CCC/Caa1	HUB International Holdings, Inc., 10.25%, 6/15/15 (144A)
		U.S.I. Holdings Corp., 4.125%, 11/15/14 (144A)
		U.S.I. Holdings Corp., 9.75%, 5/15/15 (144A)
3,075,000 (a)	BB/Baa3	Multi-Line Insurance -- 1.3%
1,100,000	BBB/Baa2	Liberty Mutual Group, Inc., 10.75%, 6/15/58 (144A)
		MetLife, Inc., 10.75%, 8/1/39
5,300,000	BBB-/Baa3	Property & Casualty Insurance -- 1.4%
		Allmerica Financial Corp., 7.625%, 10/15/25
EURO		Reinsurance -- 1.0%
275,000 (a)	B-/NR	Atlas Reinsurance Plc, 10.95%, 1/10/11 (144A)
375,000 (a)	BB+/NR	Blue Fin, Ltd., 4.65%, 4/10/12 (144A)
250,000 (a)	BB-/NR	Mystic Re II, Ltd., 10.252%, 6/7/11 (144A)
250,000 (a)	B-/NR	Residential Reinsurance 2007, Ltd., 10.502%, 6/7/10 (144A)
650,000 (a)	BB-/NR	Residential Reinsurance 2008, Ltd., 7.002%, 6/6/11 (144A)
850,000 (a)	B-/NR	Residential Reinsurance 2008, Ltd., 11.752%, 6/6/11 (144A)
500,000 (a)	NR/NR	Successor II, Ltd., 25.252%, 4/6/10 (144A)
250,000	B-/NR	Successor X, Ltd., 0.0%, 12/9/10 (144A)

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Total Insurance		
		REAL ESTATE -- 1.3%
		Real Estate Operating Companies -- 1.3%
172,585 (a)	B-/NR	Alto Palermo SA, 11.0%, 6/11/12 (144A)
5,000,000	B-/B3	Forest City Enterprises, Inc., 7.625%, 6/1/15
Total Real Estate		

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

Pioneer High Income Trust | Annual Report | 3/31/10 21

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)		Val
1,870,000	CCC+/Caa2	SOFTWARE & SERVICES -- 4.0% Application Software -- 0.5% Vangent, Inc., 9.625%, 2/15/15	\$
4,965,000	B-/Caa1	Data Processing & Outsourced Services -- 1.2% First Data Corp., 9.875%, 9/24/15	\$
2,892,000	B-/B2	Internet Software & Services -- 0.9% Terremark Worldwide, Inc., 12.0%, 6/15/17 (144A)	\$
2,845,000	CCC/Caa1	IT Consulting & Other Services -- 0.7% Activant Solutions, Inc., 9.5%, 5/1/16	\$
3,447,000 (c) (g)	NR/NR	Systems Software -- 0.7% Pegasus Solutions, Inc., 13.0%, 4/15/14 (144A)	\$
		Total Software & Services	\$
600,000	BB+/Ba1	TECHNOLOGY HARDWARE & EQUIPMENT -- 0.6% Computer Storage & Peripherals -- 0.2% Seagate Technology International, 10.0%, 5/1/14 (144A)	\$
1,550,000	B/B1	Electronic Equipment & Instruments -- 0.4% Da-Lite Screen Co, Inc., 12.5%, 4/1/15 (144A)	\$
		Total Technology Hardware & Equipment	\$
2,210,000	B-/B2	TELECOMMUNICATION SERVICES -- 7.5% Alternative Carriers -- 0.7% Global Crossings, Ltd., 12.0%, 9/15/15 (144A)	\$
4,295,000	CCC+/B3	Integrated Telecommunication Services -- 3.3% Broadview Networks Holdings, Inc.,	

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		11.375%, 9/1/12	\$
3,000,000	BB-/B2	GCI, Inc., 7.25%, 2/15/14	
1,000,000 (n)	B/B1	PAETEC Holding Corp., 8.875%, 6/30/17	
3,865,000 (n)	CCC+/Caa1	PAETEC Holding Corp., 9.5%, 7/15/15	

		Wireless Telecommunication Services -- 3.5%	
6,400,000 (n)	B-/B3	Cricket Communications, Inc., 9.375%, 11/1/14	\$
2,500,000 (n)	CCC+/Caa2	Intelsat Jackson Holdings, Ltd., 11.5%, 6/15/16	
540,000	B/B2	MetroPCS Wireless, Inc., 9.25%, 11/1/14	
3,020,000	B-/B2	True Move Co., Ltd., 10.75%, 12/16/13 (144A)	

		Total Telecommunication Services	\$

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

22 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
		UTILITIES -- 2.1%
885,000 (n)	B+/Caa3	Electric Utilities -- 0.9%
		Energy Future Holdings Corp., 10.0%, 1/15/20 (144A)
3,095,000 (n)	CCC/Caa2	Texas Competitive Electric Holdings Co. LLC, 10.25%, 11/1/15

1,800,000	BB-/Ba3	Independent Power Producers & Energy Traders -- 0.9%
1,500,000	NR/B2	Intergen NV, 9.0%, 6/30/17 (144A)
		Star Energy Geothermal (Wayang Windu), Ltd., 11.5%, 2/12/15 (144A)

1,000,000	BB-/Ba2	Multi-Utilities -- 0.3%
		PNM Resources, Inc., 9.25%, 5/15/15

		Total Utilities

		TOTAL CORPORATE BONDS & NOTES (Cost \$388,234,281)

		CONVERTIBLE BONDS & NOTES -- 7.6% of Net Assets
		ENERGY -- 2.1%
		Coal & Consumable Fuels -- 0.5%
1,905,000	BB-/NR	Massey Energy Co., 3.25%, 8/1/15

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

2,265,000 (d)	NR/NR	Oil & Gas Drilling -- 1.2%
1,600,000	BBB+/Baa2	Hercules Offshore, Inc., 3.375%, 6/1/38 (144A)
1,175,000	BBB+/Baa2	Transocean, Ltd., 1.5%, 12/15/37
		Transocean, Ltd., 1.625%, 12/15/37

225,000	NR/NR	Oil & Gas Exploration & Production -- 0.4%
1,340,000	BB/Ba3	Carrizo Oil & Gas, Inc., 4.375%, 6/1/28
		Chesapeake Energy Corp., 2.5%, 5/15/37

Total Energy

4,000 (e)	BB-/NR	MATERIALS -- 0.8%
		Diversified Chemicals -- 0.8%
		Hercules, Inc., 6.5%, 6/30/29

Total Materials

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

Pioneer High Income Trust | Annual Report | 3/31/10 23

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)		Value
500,000	NR/NR	CAPITAL GOODS -- 0.3%	
600,000	NR/NR	Electrical Components & Equipment -- 0.3%	
		JA Solar Holdings Co., Ltd., 4.5%, 5/15/13	\$ 4
		Suntech Power Holdings Co., Ltd., 3.0%, 3/15/13	5
		Total Capital Goods	\$ 9
3,330,000	CCC+/Caa2	TRANSPORTATION -- 0.8%	
		Marine -- 0.8%	
		Horizon Lines, Inc., 4.25%, 8/15/12	\$ 2,9
		Total Transportation	\$ 2,9
1,832,000	CCC+/NR	MEDIA -- 0.4%	
		Movies & Entertainment -- 0.4%	
		Live Nation, Inc., 2.875%, 7/15/27	\$ 1,6
		Total Media	\$ 1,6
2,837,000 (d)	BB-/NR	HEALTH CARE EQUIPMENT & SERVICES -- 1.7%	
		Health Equipment & Services -- 0.7%	
		Hologic, Inc., 2.0%, 12/15/37	\$ 2,5

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

1,985,000	B/B1	Health Care Facilities -- 0.7%	
780,000	B/NR	LifePoint Hospitals, Inc., 3.25%, 8/15/25	\$ 1,9
		LifePoint Hospitals, Inc., 3.5%, 5/15/14	7
			\$ 2,7
1,210,000	B+/B3	Health Care Services -- 0.3%	
		Omnicare, Inc., 3.25%, 12/15/35	\$ 1,0
		Total Health Care Equipment & Services	\$ 6,2
1,080,000 (b)	NR/NR	TECHNOLOGY HARDWARE & EQUIPMENT -- 0.6%	
		Communications Equipment -- 0.2%	
		Nortel Networks Corp., 2.125%, 4/15/14	\$ 8
1,514,000	B+/NR	Electronic Equipment & Instruments -- 0.4%	
		L-1 Identity Solutions, Inc., 3.75%, 5/15/27	\$ 1,4
		Total Technology Hardware & Equipment	\$ 2,2
3,025,000	B-/B3	TELECOMMUNICATION SERVICES -- 0.9%	
		Alternative Carriers -- 0.9%	
		Time Warner Telecom, Inc., 2.375%, 4/1/26	\$ 3,4
		Total Telecommunication Services	\$ 3,4
		TOTAL CONVERTIBLE BONDS & NOTES	
		(Cost \$21,038,680)	\$ 27,9

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

24 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	
1,650,000	BBB/Baa3	MUNICIPAL BONDS -- 5.6% of Net Assets Indiana -- 1.6%
4,250,000	BBB/NR	East Chicago Industrial Pollution Control Revenue, 7.0%, 1/1/14 Indiana Development Finance Authority Revenue, 5.75%, 10/1/11
3,000,000 (g) (h)	NR/NR	Michigan -- 0.0% Wayne Charter Escrow, 0.0%, 12/1/15
4,525,000	B/B3	New Jersey -- 1.2% New Jersey Economic Development Authority Revenue, 7.0%, 11/15/30
		New York -- 0.9%

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

3,475,000	BB-/B1	New York City Industrial Development Agency Revenue, 7.625%, 12/1/32
6,300,000	NR/NR	North Carolina -- 1.9% Charlotte Special Facilities Refunding Revenue, 5.6%, 7/1/27
2,000,000	NR/NR	Charlotte Special Facilities Refunding Revenue, 7.75%, 2/1/28
TOTAL MUNICIPAL BONDS (Cost \$16,676,863)		
3,300,000 (a) (i)	NR/NR	MUNICIPAL COLLATERALIZED DEBT OBLIGATION -- 0.7% of Net Assets Non-Profit Preferred Funding Trust I, 12.0%, 9/15/37 (144A)
TOTAL MUNICIPAL COLLATERALIZED DEBT OBLIGATION (Cost \$3,293,400)		
1,200,000	B-/B2	SOVEREIGN DEBT OBLIGATIONS -- 1.9% of Net Assets Argentina --0.3% City of Buenos Aires, 12.5%, 4/6/15 (144A)
ITL 4,600,000,000 (d)	BBB-/Baa2	Brazil -- 0.9% Banco Nacional de Desenvolvimento Bndes, 8.0%, 4/28/10
2,134,400 (d)	BBB/Baa1	Russia -- 0.7% Russia Government International Bond, 7.5%, 3/31/30
TOTAL SOVEREIGN DEBT OBLIGATIONS (Cost \$5,495,854)		

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

Pioneer High Income Trust | Annual Report | 3/31/10 25

Schedule of Investments | 3/31/10 (continued)

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)		Value
483,383	B/B3	FLOATING RATE LOAN INTERESTS -- 2.0% of Net Assets (j) ENERGY -- 0.1% Oil & Gas Exploration & Production -- 0.1% Venoco, Inc., Second Lien Term Loan, 4.25%, 5/7/14	\$ 4

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		Total Energy	\$	4
		MATERIALS -- 0.6%		
		Diversified Chemicals -- 0.2%		
418,000	B/B2	Ineos US Finance LLC, Facility Term Loan B-2, 7.5%, 12/16/13	\$	4
418,000	B/B2	Ineos US Finance LLC, Facility Term Loan C-2, 8.0%, 12/16/14		4
			\$	8
		Steel -- 0.4%		
1,561,714 (g)	B/B3	Niagara Corp., Term Loan, 8.5%, 6/29/14	\$	1,5
		Total Materials	\$	2,3
		COMMERCIAL & PROFESSIONAL SERVICES -- 0.0%		
		Diversified Support Services -- 0.0%		
119,378	BB-/B2	Rental Service Corp., Second Lien Initial Term Loan, 3.76%, 11/30/13	\$	1
		Total Commercial & Professional Services	\$	1
		AUTOMOBILES & COMPONENTS -- 0.1%		
		Auto Parts & Equipment -- 0.1%		
360,000	B+/B3	HHI Group Holdings, LLC, Term Loan, 10.5%, 4/30/15	\$	3
		Total Automobiles & Components	\$	3
		CONSUMER SERVICES -- 0.2%		
		Casinos & Gaming -- 0.2%		
2,330,000 (b)	BB-/Caa1	Gateway Casinos & Entertainment, Inc., Advance Second Lien Term Loan, 5.751%, 3/31/15	\$	5
		Total Consumer Services	\$	5
		HOUSEHOLD & PERSONAL PRODUCTS -- 0.1%		
		Household Products -- 0.1%		
179,811	CCC+/B2	Spectrum Brands, Inc., Dollar Term Loan B, 8.0% -- 8.75%, 6/30/12	\$	1
9,272	CCC+/B2	Spectrum Brands, Inc., Letter of Credit Loan, 1.5%, 6/30/12		
		Total Household & Personal Products	\$	1

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

26 Pioneer High Income Trust | Annual Report | 3/31/10

Principal Amount USD (\$)	S&P/ Moody's Ratings (unaudited)	Value
---------------------------	---	-------

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		DIVERSIFIED FINANCIALS -- 0.0%	
		Consumer Finance -- 0.0%	
7,080	BB-/NR	Dollar Financial Corp., Canadian Borrower Term Loan, 7.0%, 12/31/14	\$
5,206	BB-/NR	Dollar Financial Corp., Delayed Draw Term Loan, 7.0%, 12/31/14	
		Total Diversified Financials	\$

		INSURANCE -- 0.6%	
		Multi-Line Insurance -- 0.6%	
382,922	B-/B2	AmWins Group, Inc., Initial Term Loan 2.76% - 2.78%, 6/8/13	\$
2,250,000	B-/B2	AmWins Group, Inc., Second Lien Initial Term Loan, 5.78%, 6/9/14	1,
		Total Insurance	\$ 2,

		UTILITIES -- 0.3%	
		Electric Utilities -- 0.3%	
189,050	B+/B2	Texas Competitive Electric Holdings Co., LLC, Delayed Draw Term Loan, 3.729% - 3.79%, 10/10/14	\$
1,190,840	B-/Ba3	Texas Competitive Electric Holdings Co., LLC, Initial Tranche B-2 Term Loan 3.729% - 3.79%, 10/10/14	
		Total Utilities	\$ 1,

		TOTAL FLOATING RATE LOAN INTERESTS (Cost \$9,407,692)	\$ 7,

		FIXED RATE LOAN INTERESTS -- 0.3% of Net Assets	
		SEMICONDUCTORS & SEMICONDUCTOR EQUIPMENT -- 0.3%	
		Semiconductor Equipment -- 0.3%	
1,023,266 (n)	NR/NR	Freescal Semiconductor, Inc., Incremental Term Loan, 12.5%, 12/15/14	\$ 1,
		TOTAL FIXED RATE LOAN INTERESTS (Cost \$2,434,597)	\$ 1,

Shares			

		COMMON STOCKS -- 2.9% of Net Assets	
		ENERGY -- 0.1%	
		Oil & Gas Equipment & Services -- 0.1%	
2,272,024 (h)		Skeie Drilling & Production ASA	\$
		Total Energy	\$

		MATERIALS -- 0.7%	
		Commodity Chemicals -- 0.6%	
114,503 (h)		Georgia Gulf Corp.	\$ 2,

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

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Shares

26,215 (g)	Steel -- 0.1% Niagara Corp.		\$ 20
	Total Materials		\$ 2,32
894 (g) (h) (i)	CAPITAL GOODS -- 0.1% Building Products -- 0.1% Panolam Holdings Co.		\$ 43
	Total Capital Goods		\$ 43
96,819 (h) (n)	TRANSPORTATION -- 0.4% Airlines -- 0.4% Delta Airlines, Inc.		\$ 1,41
	Total Transportation		\$ 1,41
55,194 (h)	AUTOMOBILES & COMPONENTS -- 1.2% Auto Parts & Equipment -- 1.2% Lear Corp.		\$ 4,37
	Total Automobiles & Components		\$ 4,37
17,042 (h)	MEDIA -- 0.1% Cable & Satellite -- 0.1% Charter Communications, Inc.		\$ 58
	Total Media		\$ 58
17,818	PHARMACEUTICALS & BIOTECHNOLOGY & LIFE SCIENCES -- 0.3% Pharmaceuticals -- 0.3% Teva Pharmaceutical Industries, Ltd. (A.D.R.)		\$ 1,12
	Total Pharmaceuticals & Biotechnology & Life Sciences		\$ 1,12
10,942 (g) (h)	SOFTWARE & SERVICES -- 0.0% Systems Software -- 0.0% Perseus Holding Corp.		\$
	Total Software & Services		\$
	TOTAL COMMON STOCKS (Cost \$8,179,292)		\$ 10,57
5,100	CONVERTIBLE PREFERRED STOCK -- 0.9% of Net Assets MATERIALS -- 0.2% Diversified Metals & Mining -- 0.2% Freeport-McMoRan Copper & Gold, Inc., 6.75%		\$ 59
	Total Materials		\$ 59
2,755	DIVERSIFIED FINANCIALS -- 0.7% Other Diversified Financial Services -- 0.7% Bank of America Corp., 7.25%		\$ 2,68
	Total Diversified Financials		\$ 2,68

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

TOTAL CONVERTIBLE PREFERRED STOCK
(Cost \$2,383,713)

\$ 3,27

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

28 Pioneer High Income Trust | Annual Report | 3/31/10

Shares		Value
	PREFERRED STOCK -- 0.0% of Net Assets	
	SOFTWARE & SERVICES -- 0.0%	
	Systems Software -- 0.0%	
5,745 (g)	Perseus Holding Corp., 14.0% (144A)	\$ --
	TOTAL PREFERRED STOCK	
	(Cost \$0)	\$ --
	RIGHTS/WARRANTS -- 0.2% of Net Assets	
	ENERGY -- 0.1%	
	Oil & Gas Exploration & Production -- 0.1%	
2,500,000 (h)	Norse Energy Corp., ASA -- CW11, Expires 7/14/11	\$ 362,215
	Total Energy	\$ 362,215
	MATERIALS -- 0.1%	
	Commodity Chemicals -- 0.1%	
67,842 (h)	Arco Chemical Rights, Expires 4/15/10	\$ 504,000
	Total Materials	\$ 504,000
	TOTAL RIGHTS/WARRANTS	
	(Cost \$963,590)	\$ 866,215
Principal Amount USD (\$)		
	TEMPORARY CASH INVESTMENTS -- 10.1% of Net Assets	
	SECURITIES LENDING COLLATERAL -- 10.1% (k)	
	Certificates of Deposit:	
922,130	Bank of Nova Scotia, 0.2%, 6/1/10	\$ 922,130
1,020,067	BBVA NY, 0.265%, 6/1/10	1,020,067
310,347	BNP Paribas, 0.70%, 6/4/10	310,347
1,122,061	CBA Financial, 0.27%, 1/3/11	1,122,061
1,020,056	DnB NOR Bank ASA NY, 0.19%, 5/19/10	1,020,056
1,020,083	Rabobank Nederland NY, 0.19%, 7/6/10	1,020,083
1,020,056	Royal Bank of Canada, 0.23%, 1/21/11	1,020,056
		\$ 6,434,800
	Commercial Paper:	
1,162,139	Bank of America, 0.85%, 5/12/10	\$ 1,162,139
714,039	BCSFUN, 0.07%, 4/1/10	714,039
134,979	Caterpillar Financial Services, 0.34%, 8/20/10	134,979

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

749,688	CATFIN, 0.17%, 4/16/10	749,688
509,838	CBAPP, 0.20%, 6/7/10	509,838
1,020,029	Char FD, 0.16%, 4/7/10	1,020,029
407,917	Ciesco, 0.19%, 5/20/10	407,917
923,828	CME, Inc., 0.90%, 8/6/10	923,828
1,019,803	FASCO, 0.19%, 5/18/10	1,019,803
111,171	GE Capital Corp., 0.31%, 10/6/10	111,171
110,421	GE Capital Corp., 0.35%, 10/21/10	110,421
306,181	GE Capital Corp., 0.43%, 8/20/10	306,181

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

Pioneer High Income Trust | Annual Report | 3/31/10 29

Schedule of Investments | 3/31/10 (continued)

Principal

Amount

USD (\$)

Value

	Commercial Paper -- (continued)	
509,953	GE, 0.30%, 1/26/11	\$ 509,953
219,291	HNDAF, 0.16%, 4/22/10	219,291
815,917	HNDAF, 0.17%, 5/4/10	815,917
1,223,849	INDFG, 0.20%, 5/3/10	1,223,849
101,986	INDFG, 0.21%, 5/4/10	101,986
448,813	JDCLLP, 0.15%, 4/7/10	448,813
428,409	JDCLLP, 0.15%, 4/9/10	428,409
113,759	John Deere Capital Corp., 0.33%, 7/16/10	113,759
863,307	JPMorgan Chase & Co., 0.57%, 9/24/10	863,307
418,017	Kithaw, 0.16%, 5/5/10	418,017
611,853	Kithaw, 0.20%, 5/24/10	611,853
407,941	Old LLC, 0.18%, 5/11/10	407,941
795,544	PARFIN, 0.25%, 4/19/10	795,544
407,957	Ranger, 0.18%, 5/3/10	407,957
1,156,608	Santander, 0.30%, 7/23/10	1,156,608
779,304	SRCPP, 0.17%, 4/6/11	779,304
305,960	SRCPP, 0.19%, 5/6/10	305,960
449,812	STRAIT, 0.17%, 4/26/10	449,812
188,221	STRAIT, 0.18%, 4/1/10	188,221
198,222	STRAIT, 0.18%, 5/7/10	198,222
407,882	STRAIT, 0.20%, 6/2/10	407,882
509,923	TB LLC, 0.19%, 5/10/10	509,923
509,803	TB LLC, 0.23%, 6/9/10	509,803
1,020,056	Toyota Motor Credit Corp., 0.23%, 1/10/11	1,020,056
156,296	US Bancorp, 0.30%, 5/28/10	156,296
218,688	US Bancorp, 0.65%, 5/6/10	218,688
102,088	US Bancorp, 0.66%, 6/4/10	102,088
288,421	Wal Mart Stores, Inc., 0.22%, 7/1/10	288,421
407,913	WFC, 0.33%, 12/2/10	407,913
724,416	WFC, 0.70%, 1/24/11	724,416
	Commercial Paper -- (continued)	
1,019,659	WSTPAC, 0.25%, 5/27/10	\$ 1,019,659

\$ 22,979,901

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

		Tri-party Repurchase Agreements:	
1,489,281	Deutsche Bank, 0.02%, 4/1/10		\$ 1,489,281
3,060,167	RBS Securities, Inc., 0.01%, 4/1/10		3,060,167
			\$ 4,549,448

		Time Deposits:	
1,582,718	Societe Generale, 0.12%, 4/1/10		\$ 1,582,718

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

30 Pioneer High Income Trust | Annual Report | 3/31/10

Shares			Value
		Money Market Mutual Funds:	
1,632,089	Dreyfus Preferred Money Market Fund		\$ 1,632,089
		TOTAL SECURITIES LENDING COLLATERAL	\$ 37,178,956
		TOTAL TEMPORARY CASH INVESTMENTS (Cost \$37,178,956)	\$ 37,178,956
		TOTAL INVESTMENTS IN SECURITIES -- 146.3% (Cost \$512,061,160) (1) (m)	\$ 536,891,106
		OTHER ASSETS AND LIABILITIES -- (5.1)%	\$ (18,797,308)
		PREFERRED SHARES AT REDEMPTION VALUE, INCLUDING DIVIDENDS PAYABLE -- (41.2)%	\$ (151,007,091)
		NET ASSETS APPLICABLE TO COMMON SHAREOWNERS -- 100.0%	\$ 367,086,707

NR Security not rated by S&P or Moody's.

(144A) Security is exempt from registration under Rule 144A of the Securities Act of 1933. Such securities may be resold normally to qualified institutional buyers in a transaction exempt from registration. At March 31, 2010, the value of these securities amounted to \$161,031,662 or 43.9% of total net assets applicable to common shareowners.

- (a) Floating rate note. The rate shown is the coupon rate at March 31, 2010.
- (b) Security is in default and is non-income producing.
- (c) Payment-in Kind (PIK) security which may pay interest in additional principal amount.
- (d) Debt obligation initially issued at one coupon rate which converts to another coupon at a specific date. The rate shown is the rate at March 31, 2010.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- (e) Security is priced as a unit.
- (f) Security is a perpetual bond and has no definite maturity date.
- (g) Security is fair valued using fair value methods (other than prices supplied by independent pricing services). (See Note 1A).
- (h) Non-income producing.
- (i) Indicates a security that has been deemed illiquid. The aggregate cost of illiquid securities is \$3,293,400. The aggregate value of \$2,866,200 represents 0.8% of total net assets applicable to common shareowners.
- (j) Floating rate loan interests in which the Trust invests generally pay interest at rates that are periodically redetermined by reference to a base lending rate plus a premium. These base lending rates are generally (i) the lending rate offered by one or more major European banks, such as LIBOR (London InterBank Offered Rate), (ii) the prime rate offered by one or more major United States banks, (iii) the certificate of deposit (iv) other base lending rates used by commercial lenders. The interest rate shown is the rate accruing at March 31, 2010.
- (k) Securities lending collateral is managed by Credit Suisse AG, New York Branch.

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

Pioneer High Income Trust | Annual Report | 3/31/10 31

Schedule of Investments | 3/31/10 (continued)

- (l) At March 31, 2010, the net unrealized gain on investments based on cost for federal income tax purposes of \$514,460,578 was as follows:

Aggregate gross unrealized gain for all investments in which there is an excess of value over tax cost	\$57,255,503
Aggregate gross unrealized loss for all investments in which there is an excess of tax cost over value	(34,824,975)

Net unrealized gain	\$22,430,528
	=====

For financial reporting purposes net unrealized gain was \$24,829,946 and cost of investments aggregated \$512,061,160.

- (m) Distribution of investments by country of issue, as a percentage of total holdings, is as follows (unaudited):

United States	80.5%
Canada	4.1
Cayman Islands	2.2
Norway	2.1
Bermuda	1.8
Brazil	1.4
United Kingdom	1.2
Germany	1.0

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Netherlands	0.9
Argentina	0.7
Australia	0.6
Italy	0.6
Mexico	0.6
Thailand	0.6
Russia	0.5
Virgin Islands	0.4
Indonesia	0.3
Israel	0.2
Luxembourg	0.2
Ireland	0.1
Other (individually less than 1%)	--

	100.0%
	=====

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

32 Pioneer High Income Trust | Annual Report | 3/31/10

(n) At March 31, 2010, the following securities were out on loan:

Principal Amount USD(\$)	Description	Market Value
2,137,000	Aleris International, Inc., 10.0%, 12/15/16	\$ 9,616
1,000,000	Algoma Acquisition Corp., 9.875%, 6/15/15 (144A)	920,000
1,133,000	Allison Transmission, Inc., 11.0%, 11/1/15 (144A)	1,206,645
6,163,000	Cricket Communications, Inc., 9.375%, 11/1/14	6,270,852
40,000	Energy Future Holdings Corp., 10.0%, 1/15/20 (144A)	41,700
152,000	Freescale Semiconductor, Inc., Incremental Term Loan, 12.5%, 12/15/14	156,940
1,100,000	Goodyear Tire & Rubber Co., 10.5%, 5/15/16	1,188,000
1,230,000	Graphic Packaging International, Inc., 9.5%, 8/15/13	1,260,750
2,970,000	Hexion U.S. Finance Corp., 9.75%, 11/15/14	3,029,400
570,000	Intelsat Jackson Holdings, Ltd., 11.5%, 6/15/16	612,750
100,000	Minerva Overseas II, Ltd., 10.875%, 11/15/19 (144A)	107,875
45,000	PAETEC Holding Corp., 8.875%, 6/30/17	46,238
2,133,000	PAETEC Holding Corp., 9.5%, 7/15/15	2,159,662
1,000,000	Park-Ohio Industries, Inc., 8.375%, 11/15/14	882,500
3,918,000	Sally Holdings LLC, 10.5%, 11/15/16	4,270,620
1,183,000	Tenneco Automotive, Inc., 8.625%, 11/15/14	1,200,745
3,064,000	Texas Competitive Electric Holdings Co. LLC, 10.25%, 11/1/15	2,129,480
570,000	U.S. Concrete, Inc., 8.375%, 4/1/14	336,300
445,000	U.S.I. Holdings Corp., 9.75%, 5/15/15 (144A)	420,525
2,223,758	Univision Communications, Inc., 9.75%, 3/15/15 (144A)	1,923,551
1,795,000	Waste Services, Inc., 9.5%, 4/15/14	1,848,850
3,651,000	Yankee Acquisition Corp., 8.5%, 2/15/15	3,760,530
815,000	Yankee Acquisition Corp., 9.75%, 2/15/17	841,488

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

 Shares

54,500	Delta Airlines, Inc.	795,155
		\$35,420,172

=====

Note: Principal amounts are denominated in U.S. dollars unless otherwise denoted.

EURO Euro
 ITL Italian Lira
 NOK Norwegian Krone

Glossary of Terms:

(A.D.R.) American Depositary Receipt

Purchases and sales of securities (excluding temporary cash investments) for the year ended March 31, 2010, aggregated \$114,913,811 and \$63,976,697, respectively.

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

Pioneer High Income Trust | Annual Report | 3/31/10 33

Schedule of Investments | 3/31/10 (continued)

Various inputs are used in determining the value of the Trust's investments. These inputs are summarized in the three broad levels listed below.

Highest priority is given to Level 1 inputs and lowest priority is given to Level 3.

- Level 1 -- quoted prices in active markets for identical securities
- Level 2 -- other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.)
- Level 3 -- significant unobservable inputs (including the Trust's own assumptions in determining fair value of investments)

The following is a summary of the inputs used as of March 31, 2010, in valuing the Trust's investments:

	Level 1	Level 2	Level 3	Total
Asset backed securities	\$ --	\$ 9,594,774	\$ --	\$ 9,594,774
Collateralized mortgage backed securities	--	6,031,026	--	6,031,026
Corporate bonds & notes (systems software)	--	--	2,585,250	2,585,250
Corporate bonds & notes (other industries)	--	400,397,892	--	400,397,892
Convertible bonds & notes	--	27,909,596	--	27,909,596

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Municipal bonds	--	20,609,781	--	20,609,781
Municipal collateralized debt obligation	--	2,428,140	--	2,428,140
Sovereign debt obligation	--	6,938,744	--	6,938,744
Floating rate loan interests (steel)	--	--	1,546,097	1,546,097
Floating rate loan interests (other industries)	--	5,893,877	--	5,893,877
Fixed rate loan interest	--	1,056,522	--	1,056,522
Common stock (steel)	--	--	203,428	203,428
Common stock (building products)	--	--	438,060	438,060
Common stock (other industries)	9,935,176	--	--	9,935,176
Convertible preferred stock (other diversified financial services)	--	2,686,125	--	2,686,125
Convertible preferred stock (other industries)	591,447	--	--	591,447
Rights/Warrants (commodity chemicals)	--	504,000	--	504,000
Rights/Warrants (other industries)	362,215	--	--	362,215
Temporary cash investments	--	35,546,867	--	35,546,867
Money market mutual funds	1,632,089	--	--	1,632,089
Total	\$12,520,927	\$519,597,344	\$4,772,835	\$536,891,106
Other Financial Instruments*	\$ --	\$ (11,018)	\$ --	\$ (11,018)

* Other financial instruments include foreign exchange contracts.

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

34 Pioneer High Income Trust | Annual Report | 3/31/10

The following is a reconciliation of assets valued using significant unobservable inputs (level 3):

	Balance as of 3/31/09	Realized gain (loss)	Change in unrealized appreciation (depreciation) (1)	Net purchases (sales)	Transfer in and out of Level 3*	Balance as of 3/31/10
Corporate bonds & notes (systems software)	\$--	\$--	\$ (3,128,836)	\$5,714,086	\$--	\$2,585,250
Floating rate loan interests (steel)	--	--	--	1,546,097	--	1,546,097
Common stock (steel)	--	--	--	203,428	--	203,428
Common stock (building products)	--	--	--	438,060	--	438,060
Ending balance	\$--	\$--	\$ (3,128,836)	\$7,901,671	\$--	\$4,772,835

(1) Unrealized appreciation (depreciation) on these securities is included in the change in unrealized gain (loss) from investments in the Statement of Operations.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

* Transfers are calculated beginning of period.

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

Pioneer High Income Trust | Annual Report | 3/31/10 35

Statement of Assets and Liabilities | 3/31/10

ASSETS:

Investments in securities, at value (including securities loaned of \$35,420,172) (cost \$512,061,160)	\$536,891,10
Cash	2,198,52
Foreign currencies, at value (cost \$4,659,382)	4,902,48
Receivables --	
Investment securities sold	3,243,18
Paydown	12,97
Dividends and interest	11,620,52
Reinvestment of distributions	319,32
Prepaid expenses and other assets	55,00
<hr style="border-top: 1px dashed #000;"/>	
Total assets	\$559,243,13

LIABILITIES:

Payables --	
Investment securities purchased	\$ 3,554,50
Upon return of securities loaned	37,178,95
Forward foreign currency portfolio hedge contracts -- net	11,01
Due to affiliates	272,43
Accrued expenses	132,42
<hr style="border-top: 1px dashed #000;"/>	
Total liabilities	\$ 41,149,33

PREFERRED SHARES AT REDEMPTION VALUE:

\$25,000 liquidation value per share applicable to 6,040 shares, including dividends payable of \$7,091	\$151,007,09
--	--------------

NET ASSETS APPLICABLE TO COMMON SHAREOWNERS:

Paid-in capital	\$393,962,92
Undistributed net investment income	11,063,38
Accumulated net realized loss on investments and foreign currency transactions	(62,950,77)
Net unrealized gain on investments	24,829,94
Net unrealized gain on forward foreign currency contracts and other assets and liabilities denominated in foreign currencies	181,23
<hr style="border-top: 1px dashed #000;"/>	
Net assets applicable to common shareowners	\$367,086,70

NET ASSET VALUE PER SHARE:

No par value (unlimited number of shares authorized)	
Based on \$367,086,707/27,737,499 common shares	\$ 13.2

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

36 Pioneer High Income Trust | Annual Report | 3/31/10

Statement of Operations

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

For the Year Ended 3/31/10

INVESTMENT INCOME:

Interest	\$	48,820,400
Dividends (net of foreign taxes withheld \$1,476)		243,687
Income from securities loaned, net		144,803

Total investment income		\$ 49
-------------------------	--	-------

EXPENSES:

Management fees	\$	2,729,932
Administrative fees		139,430
Transfer agent fees and expenses		19,254
Shareowner communications expense		79,510
Auction agent fees		402,677
Custodian fees		31,185
Registration fees		25,287
Professional fees		166,337
Printing expense		51,298
Trustees' fees		14,730
Pricing fee		33,940
Miscellaneous		46,393

Total expenses		\$ 3
----------------	--	------

Less fees paid indirectly

Net expenses		\$ 3
--------------	--	------

Net investment income		\$ 45
-----------------------	--	-------

REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENTS AND FOREIGN CURRENCY TRANSACTIONS:

Net realized gain (loss) from:

Investments	\$	(42,807,348)
Forward foreign currency contracts and other assets and liabilities denominated in foreign currencies		806,445 \$ (42

Change in net unrealized gain (loss) from:

Investments	\$	212,662,104
Unfunded corporate loans		--
Forward foreign currency contracts and other assets and liabilities denominated in foreign currencies		(500,288) \$212

Net gain on investments and foreign currency transactions		\$170
---	--	-------

DISTRIBUTIONS TO PREFERRED SHAREOWNERS FROM NET INVESTMENT INCOME:

Net increase in net assets applicable to common shareowners resulting from operations		\$215
--	--	-------

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

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

For the Years Ended 3/31/10 and 3/31/09, respectively

	Year Ended 3/31/10	Year Ended 3/31/09
FROM OPERATIONS:		
Net investment income	\$ 45,468,921	\$ 49,810,8
Net realized loss on investments and foreign currency transactions	(42,000,903)	(14,755,9
Change in net unrealized gain (loss) on investments and foreign currency transactions	212,161,816	(159,922,0
Dividends and distributions to preferred shareowners from net investment income	(396,102)	(3,569,5
Net increase (decrease) in net assets applicable to common shareowners resulting from operations	\$215,233,732	\$(128,436,6
DISTRIBUTIONS TO COMMON SHAREOWNERS FROM:		
Net investment income (\$1.65 and \$1.65 per share, respectively)	\$(45,526,952)	\$ (45,076,0
Total distributions to common shareowners	\$(45,526,952)	\$ (45,076,0
FROM TRUST SHARE TRANSACTIONS:		
Reinvestment of distributions	\$ 3,323,010	\$ 2,370,8
Net increase in net assets applicable to common shareowners resulting from Trust share transactions	\$ 3,323,010	\$ 2,370,8
Net increase (decrease) in net assets applicable to common shareowners	\$173,029,790	\$(171,141,8
NET ASSETS APPLICABLE TO COMMON SHAREOWNERS:		
Beginning of year	194,056,917	365,198,7
End of year	\$367,086,707	\$ 194,056,9
Undistributed net investment income	\$ 11,063,389	\$ 11,128,3

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

38 Pioneer High Income Trust | Annual Report | 3/31/10

Financial Highlights

	Year Ended 3/31/10	Year Ended 3/31/09	Year Ended 3/31/08
Per Common Share Operating Performance			

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Net asset value, beginning of period	\$ 7.07	\$ 13.41	\$ 1

Increase (decrease) from investment operations:(a)			
Net investment income	\$ 1.65	\$ 1.82	\$
Net realized and unrealized gain (loss) on investments and foreign currency transactions	6.17	(6.38)	(
Dividends and distributions to preferred shareowners from:			
Net investment income	(0.01)	(0.13)	(
Net realized gains	--	--	(

Net increase (decrease) from investment operations	\$ 7.81	\$ (4.69)	\$ (
Dividends and distributions to common shareowners from:			
Net investment income	(1.65)	(1.65)	(
Net realized gains	--	--	(

Net increase (decrease) in net asset value	\$ 6.16	\$ (6.34)	\$ (

Net asset value, end of period(c)	\$ 13.23	\$ 7.07	\$ 1

Market value, end of period(c)	\$ 15.38	\$ 8.03	\$ 1
=====			
Total return at market value(d)	119.69%	(27.74)%	(1
Ratios to average net assets of common shareowners			
Net expenses(e)	1.23%	1.25%	
Net investment income before preferred share dividends	14.92%	17.03%	1
Preferred share dividends	0.13%	1.22%	
Net investment income available to common shareowners	14.79%	15.81%	1
Portfolio turnover	15%	19%	

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

Pioneer High Income Trust | Annual Report | 3/31/10

39

Financial Highlights (continued)

	Year Ended 3/31/10	Year Ended 3/31/09	Year Ended 3/31/08

Net assets of common shareowners, end of period (in thousands)	\$ 367,087	\$ 194,057	\$ 365,000
Preferred shares outstanding (in thousands)	\$ 151,000	\$ 151,000	\$ 151,000
Asset coverage per preferred share, end of period	\$ 85,777	\$ 57,131	\$ 85,000
Average market value per preferred share(f)	\$ 25,000	\$ 25,000	\$ 25,000
Liquidation value, including dividends payable, per preferred share	\$ 25,001	\$ 25,002	\$ 25,000
Ratios to average net assets of common shareowners before waivers and reimbursement of expenses			
Net expenses (e)	1.23%	1.25%	
Net investment income before preferred share dividends	14.92%	17.03%	1
Preferred share dividends	0.13%	1.22%	
Net investment income available to common shareowners	14.79%	15.81%	1
=====			

(a) The per common share data presented above is based upon the average common

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- shares outstanding for the periods presented.
- (b) Amount is less than \$0.01 per common share.
 - (c) Net asset value and market value are published in Barron's on Saturday, The Wall Street Journal on Monday and The New York Times on Monday and Saturday.
 - (d) Total investment return is calculated assuming a purchase of common shares at the current market value on the first day and a sale at the current market value on the last day of the periods reported. Dividends and distributions, if any, are assumed for purposes of this calculation to be reinvested at prices obtained under the Trust's dividend reinvestment plan. Total investment return does not reflect brokerage commissions. Past performance is not a guarantee of future results.
 - (e) Expense ratios do not reflect the effect of dividend payments to preferred shareowners.
 - (f) Market value is redemption value without an active market.

The information above represents the audited operating performance data for a share of common stock outstanding, total investment return, ratios to average net assets of common shareowners and other supplemental data for the periods indicated. This information has been determined based upon financial information provided in the financial statements and market value data for the Trust's common shares.

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

40 Pioneer High Income Trust | Annual Report | 3/31/10

Notes to Financial Statements | 3/31/10

1. Organization and Significant Accounting Policies

Pioneer High Income Trust (the Trust) was organized as a Delaware statutory trust on January 30, 2002. Prior to commencing operations on April 26, 2002, the Trust had no operations other than matters relating to its organization and registration as a diversified, closed-end management investment company under the Investment Company Act of 1940, as amended. The investment objective of the Trust is to seek a high level of current income and the Trust may seek capital appreciation to the extent that it is consistent with its investment objective.

Information regarding the Trust's principal risks is contained in the Trust's original offering prospectus, with additional information included in the Trust's shareowner reports from time to time. Please refer to those documents when considering the Trust's risks. At times, the Trust's investments may represent industries or industry sectors that are interrelated or have common risks, making it more susceptible to any economic, political, or regulatory developments or other risks affecting those industries or sectors.

Under normal market conditions, the Trust invests at least 80% of its assets in below investment grade (high-yield) debt securities, loans and preferred stocks. Because the Trust's investments will be concentrated in the high-yield securities, it will be subject to risks of such securities. Below investment grade securities are commonly referred to as "junk bonds" and are considered speculative with respect to the issuer's capacity to pay interest and repay principal.

The Trust's investments in certain foreign markets or countries with limited developing markets may subject the Trust to a greater degree of risk than in a developed market. These risks include disruptive political or economic conditions and the possible imposition of adverse governmental laws or currency exchange restrictions.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The Trust's financial statements have been prepared in conformity with U.S. generally accepted accounting principles that require the management of the Trust to, among other things, make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of income, expenses and gain or loss on investments during the reporting year. Actual results could differ from those estimates.

The following is a summary of significant accounting policies followed by the Trust in the preparation of its financial statements, which are consistent with those policies generally accepted in the investment company industry:

Pioneer High Income Trust | Annual Report | 3/31/10 41

A. Security Valuation

Security transactions are recorded as of trade date. The net asset value of the Trust is computed once daily, on each day the New York Stock Exchange (NYSE) is open, as of the close of regular trading on the NYSE. Investments in loan interests are valued in accordance with guidelines established by the Board of Trustees at the mean between the last available bid and asked prices from one or more brokers or dealers as obtained from Loan Pricing Corporation. For the limited number of loan interests for which no reliable price quotes are available, such loan interests will be valued by Loan Pricing Corporation through the use of pricing matrices to determine valuations. Fixed income securities with remaining maturity of more than sixty days are valued at prices supplied by independent pricing services, which consider such factors as market prices, market events, quotations from one or more brokers, Treasury spreads, yields, maturities and ratings. Valuations may be supplemented by dealers and other sources, as required. Equity securities are valued at the last sale price on the principal exchange where they are traded. Securities or loans for which market prices and/or quotations are not readily available or are considered to be unreliable are valued using fair value methods pursuant to procedures adopted by the Board of Trustees.

The Trust may use the fair value methods if it is determined that a significant event has occurred after the close of the exchange or market on which the security trades and prior to the determination of the Trust's net asset value. Thus, the valuation of the Trust's securities may differ from exchange prices. At March 31, 2010, 7 securities were valued using fair value methods (other than securities valued using prices supplied by independent pricing services) representing 1.3% of net assets applicable to common shareowners. Inputs used in the valuation of a security using fair value methods include credit ratings, the financial condition of the company, current market conditions and comparable securities. Short-term income securities with remaining maturities of sixty days or less generally are valued at amortized cost. Money market mutual funds are valued at net asset value.

Discounts and premiums on debt securities are accreted or amortized, respectively, daily, into interest income on an effective yield to maturity basis with a corresponding increase or decrease in the cost basis of the security. Premiums and discounts related to certain mortgage-backed securities are amortized or accreted in proportion to the monthly paydowns. Interest income, including income on interest bearing cash accounts, is recorded on an accrual basis, net of unrecoverable foreign taxes withheld at the applicable country rates.

Dividend income is recorded on the ex-dividend date, except that certain dividends from foreign securities where the ex-dividend date may have

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

passed are recorded as soon as the Trust becomes aware of the ex-dividend data in the exercise of reasonable diligence.

42 Pioneer High Income Trust | Annual Report | 3/31/10

Gains and losses on sales of investments are calculated on the identified cost method for both financial reporting and federal income tax purposes.

B. Foreign Currency Translation

The books and records of the Trust are maintained in U.S. dollars. Amounts denominated in foreign currencies are translated into U.S. dollars using current exchange rates.

Net realized gains and losses on foreign currency transactions, if any, represent, among other things, the net realized gains and losses on foreign currency contracts, disposition of foreign currencies and the difference between the amount of income accrued and the U.S. dollars actually received. Further, the effects of changes in foreign currency exchange rates on investments are not segregated in the Statement of Operations from the effects of changes in market prices of those securities but are included with the net realized and unrealized gain or loss on investments.

C. Forward Foreign Currency Contracts

The Trust may enter into forward foreign currency contracts (contracts) for the purchase or sale of a specific foreign currency at a fixed price on a future date. All contracts are marked to market daily at the applicable exchange rates, and any resulting unrealized gains or losses are recorded in the Trust's financial statements. The Trust records realized gains and losses at the time a portfolio hedge is offset by entry into a closing transaction or extinguished by delivery of the currency. Risks may arise upon entering into these contracts from the potential inability of counterparties to meet the terms of the contracts and from unanticipated movements in the value of foreign currencies relative to the U.S. dollar (see Note 5).

D. Federal Income Taxes

It is the Trust's policy to comply with the requirements of the Internal Revenue Code applicable to regulated investment companies and to distribute all of its taxable income and net realized capital gains, if any, to its shareowners. Therefore, no federal income tax provision is required. Tax years for the prior three fiscal years remain subject to examination by tax authorities.

The amounts and characterizations of distributions to shareowners for financial reporting purposes are determined in accordance with federal income tax rules. Therefore, the sources of the Trust's distributions may be shown in the accompanying financial statements as either from or in excess of net investment income or net realized gain (loss) on investment and foreign currency transactions, or from paid-in capital, depending on the type of book/tax differences that may exist.

Pioneer High Income Trust | Annual Report | 3/31/10 43

At March 31, 2010, the Trust reclassified \$389,126 to increase undistributed net investment income and to increase net realized loss on investments to reflect permanent book/tax differences. The reclassification has no impact on the net assets of the Trust and presents the Trust's

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

capital accounts on a tax basis.

At March 31, 2010, the Trust had a net capital loss carryforward of \$56,023,174 which is comprised of \$9,456,629 which will expire in 2017 and \$46,566,545 which will expire 2018 if not utilized.

The Trust has elected to defer approximately \$6,519,449 of capital losses recognized between November 1, 2009 and March 31, 2010 to its fiscal year ending March 31, 2011.

The tax character of distributions paid to common and preferred shareowners during the years ended March 31, 2010 and March 31, 2009 was as follows:

	2010	2009
Distributions paid from:		
Ordinary Income	\$45,923,054	\$48,645,648
Total taxable distributions	\$45,923,054	\$48,645,648

The following shows the components of distributable earnings (losses) on a federal income tax basis at March 31, 2010.

	2010
Distributable earnings:	
Undistributed ordinary income	\$ 13,299,905
Capital loss carryforward	(56,023,174)
Post-October loss deferred	(6,519,449)
Dividends payable	(7,091)
Unrealized appreciation	22,373,595
Total	\$(26,876,214)

The difference between book-basis and tax-basis unrealized appreciation is primarily attributable to the tax deferral of losses on straddles and wash sales, the realization for tax purposes of unrealized losses on certain foreign currency contracts, the difference between book and tax amortization methods for premiums and discounts on fixed income securities, the accrual of income on securities in default, and other book/tax temporary differences.

E. Repurchase Agreements

With respect to repurchase agreements entered into by the Trust, the value of the underlying securities (collateral), including accrued interest is required to be equal to or in excess of the repurchase price. The collateral for all repurchase agreements is held in safekeeping in the customer-only

account of the Trust's custodian or sub custodians of the Trust. The Trust's investment adviser, Pioneer Investment Management, Inc. (PIM), is responsible for determining that the value of the collateral remains at least equal to the repurchase price.

F. Securities Lending

The Trust lends securities in its portfolio to certain broker-dealers or other institutional investors. When entering into a securities loan transaction, the Trust typically receives cash collateral from the borrower equal to at least the value of the securities loaned, which is invested in temporary investments. Credit Suisse AG, New York Branch, as the Trust's securities lending agent, manages the Trust's securities lending collateral. The income earned on the investment of collateral is shared with the borrower and the lending agent in payment of any rebate due to the borrower with respect to the securities loan, and in compensation for the lending agent's services to the Trust. The Trust also continues to receive payments in lieu of dividends or interest on the securities loaned. Gain or loss on the fair value of the loaned securities that may occur during the term of the loan will be for the account of the Trust. The amount of the collateral is required to be adjusted daily to reflect any price fluctuation in the fair value of the loaned securities. If the required fair value of the collateral is less than the fair value of the loaned securities, the borrower is required to deliver additional collateral for the account of the Trust prior to the close of the next business day. The Trust has the right, under the lending agreement, to terminate the loan and recover the securities from the borrower with prior notice. The Trust is required to return the cash collateral to the borrower and could suffer a loss if the value of the collateral, as invested, has declined.

G. Automatic Dividend Reinvestment Plan

All common shareowners whose shares are registered in their own names automatically participate in the Automatic Dividend Reinvestment Plan (the Plan), under which participants receive all dividends and capital gain distributions (collectively, dividends) in full and fractional common shares of the Trust in lieu of cash. Shareowners may elect not to participate in the Plan. Shareowners not participating in the Plan receive all dividends and capital gain distributions in cash. Participation in the Plan is completely voluntary and may be terminated or resumed at any time without penalty by notifying American Stock Transfer & Trust Company, the agent for shareowners in administering the Plan (the Plan Agent), in writing prior to any dividend record date; otherwise such termination or resumption will be effective with respect to any subsequently declared dividend or other distribution.

If a shareowner's shares are held in the name of a brokerage firm, bank or other nominee, the shareowner can ask the firm or nominee to participate in the Plan on the shareowner's behalf. If the firm or nominee does not offer

the Plan, dividends will be paid in cash to the shareowner of record. A firm or nominee may reinvest a shareowner's cash dividends in common shares of the Trust on terms that differ from the terms of the Plan.

Whenever the Trust declares a dividend on common shares payable in cash, participants in the Plan will receive the equivalent in common shares

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

acquired by the Plan Agent either (i) through receipt of additional unissued but authorized common shares from the Trust or (ii) by purchase of outstanding common shares on the New York Stock Exchange or elsewhere. If, on the payment date for any dividend the net asset value per common share is equal to or less than the market price per share plus estimated brokerage trading fees (market premium), the Plan Agent will invest the dividend amount in newly issued common shares. The number of newly issued common shares to be credited to each account will be determined by dividing the dollar amount of the dividend by the net asset value per common share on the date the shares are issued, provided that the maximum discount from the then current market price per share on the date of issuance does not exceed 5%. If, on the payment date for any dividend, the net asset value per common share is greater than the market value (market discount), the Plan Agent will invest the dividend amount in common shares acquired in open-market purchases. There are no brokerage charges with respect to newly issued common shares. However, each participant will pay a pro rata share of brokerage trading fees incurred with respect to the Plan Agent's open-market purchases. Participating in the Plan does not relieve shareowners from any federal, state or local taxes which may be due on dividends paid in any taxable year. Shareowners holding Plan shares in a brokerage account may not be able to transfer the shares to another broker and continue to participate in the Plan.

2. Management Agreement

PIM, a wholly owned indirect subsidiary of UniCredit S.p.A. (UniCredit) manages the Trust's portfolio. Management fees payable under the Trust's Advisory Agreement with PIM are calculated daily at the annual rate of 0.60% of the Trust's average daily managed assets. "Managed assets" means (a) the total assets of the Trust, including any form of investment leverage, minus (b) all accrued liabilities incurred in the normal course of operations, which shall not include any liabilities or obligations attributable to investment leverage obtained through (i) indebtedness of any type (including, without limitation, borrowing through a credit facility of the issuance of debt securities), (ii) the issuance of preferred stock or other similar preference securities, and/or (iii) any other means. Prior to November 1, 2009, management fees were calculated at the annual rate of 0.60% of the Trust's average weekly managed assets. For the year ended March 31, 2010, the net management fee was equivalent to 0.60% of the Trust's average daily managed assets, which was equivalent to 0.90% of the Trust's average daily net assets attributable to the common shareowners.

46 Pioneer High Income Trust | Annual Report | 3/31/10

In addition, under PIM's management and administration agreements, certain other services and costs are paid by PIM and reimbursed by the Trust. At March 31, 2010 \$272,431 was payable to PIM related to management costs, administrative costs and certain other services and is included in "Due to affiliates" on the Statement of Assets and Liabilities.

PIM has retained Princeton Administrators, LLC (Princeton) to provide certain administrative and accounting services to the Trust on its behalf. PIM pays Princeton a monthly fee at an annual rate equal to 0.07% of the Trust's average daily managed assets up to \$500 million and 0.03% for average daily managed assets in excess of \$500 million, subject to a minimum monthly fee of \$10,000. Princeton receives no compensation directly from the Trust.

3. Transfer Agents

Pioneer Investment Management Shareholder Services, Inc. (PIMSS), a wholly owned indirect subsidiary of UniCredit, through a sub-transfer agency agreement with

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

American Stock Transfer & Trust Company, provides substantially all transfer agent and shareowner services related to the Trust's common shares at negotiated rates. Deutsche Bank Trust Company Americas (Deutsche Bank) is the transfer agent, registrar, dividend paying agent and auction agent with respect to the Trust's Auction Market Preferred Shares (AMPS). The Trust pays Deutsche Bank an annual fee, as is agreed to from time to time by the Trust and Deutsche Bank, for providing such services.

4. Expense Offset Arrangements

The Trust has entered into an arrangement with its custodian whereby credits realized as a result of uninvested cash balances are used to reduce a portion of the Trust's custodian expenses. For the year ended March 31, 2010, the Trust expenses were reduced by \$4 under such arrangement.

5. Forward Foreign Currency Contracts

At March 31, 2010, the Trust had entered into various contracts that obligate the Trust to deliver or take delivery of currencies at specified future maturity dates. Alternatively, prior to the settlement date of a forward foreign currency contract, the Trust may close out such contract by entering into an offsetting hedge contract. The average number of contracts open during the year ended March 31, 2010 was 8,222,667.

Pioneer High Income Trust | Annual Report | 3/31/10 47

Open portfolio hedges at March 31, 2010, were as follows:

Currency	Net Contracts to Receive/ (Deliver)	In Exchange For US\$	Settlement Date	US\$ Value	Net Unrealized Loss
EURO	3,212,000	\$ 4,733,074	6/11/10	\$ 4,346,296	\$ (386,778)
EURO	(1,900,000)	\$ (2,607,370)	5/5/10	\$ (2,566,864)	\$ 40,506
EURO	(3,700,000)	\$ (5,200,856)	6/11/10	\$ (5,006,630)	\$ 194,226
EURO	(3,300,000)	\$ (4,606,401)	6/11/10	\$ (4,465,373)	\$ 141,028
Total					\$ (11,018)

As of March 31, 2010, the Trust had no outstanding forward currency settlement contracts.

6. Unfunded Loan Commitments

As of March 31, 2010, the Trust had an unfunded loan commitment of \$2,135,000 which could be extended at the option of the borrower, pursuant to the following loan agreement:

Borrower	Unfunded Loan Commitment
----------	--------------------------

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

CF Industries, Holdings, Inc., Bridge Facility Loan \$2,135,000

=====

7. Trust Shares

There are an unlimited number of common shares of beneficial interest authorized.

Transactions in common shares of beneficial interest for the years ended March 31, 2010 and March 31, 2009 were as follows:

	2010	2009
Shares outstanding at beginning of year	27,463,925	27,227,442
Reinvestment of distributions	273,574	236,483
Shares outstanding at end of year	27,737,499	27,463,925

=====

The Trust may classify or reclassify any unissued common shares of beneficial interest into one or more series of preferred shares of beneficial interest. As of March 31, 2010, there were 6,040 AMPS as follows: Series M7-2,020, Series W28-2,020 and Series TH7-2,000.

Dividends on Series M7 and Series TH7 are cumulative at a rate which is reset every seven days based on the results of an auction. Dividends on Series W28 are also cumulative at a rate reset every 28 days based on the results of an auction. An auction fails if there are more AMPS offered for sale than there are buyers. When an auction fails, the dividend rate for the period will be the maximum rate on the auction dates described in the prospectus for the AMPS.

48 Pioneer High Income Trust | Annual Report | 3/31/10

Preferred shareowners will not be able to sell their AMPS at an auction if the auction fails. Since February 2008, the Trust's auctions related to the AMPS have failed. The maximum rate for the 7-Day Series is 150% of the 7 day commercial paper rate. The maximum rate for the 28 day Series is 150% of the 30 day commercial paper rate. Dividend rates on AMPS ranged from 0.060% to 0.677% during the year ended March 31, 2010.

The Trust may not declare dividends or make other distributions on its common shares or purchase any such shares if, at the time of the declaration, distribution or purchase, the Trust does not comply with the asset coverage ratios described in the prospectus for the AMPS.

The AMPS are redeemable at the option of the Trust, in whole or in part, on any dividend payment date at \$25,000 per share plus any accumulated or unpaid dividends, whether or not declared. The AMPS are also subject to mandatory redemption at \$25,000 per share plus any accumulated or unpaid dividends, whether or not declared, if certain requirements relating to the composition of the assets and liabilities of the Trust as set forth in the Statement of Preference are not satisfied.

The holders of AMPS have voting rights equal to the holders of the Trust's common shares (one vote per share) and will vote together with holders of the

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

common shares as a single class. Holders of AMPS are also entitled to elect two of the Trust's Trustees. In addition, the Investment Company Act of 1940, as amended, requires that along with approval by shareowners that might otherwise be required, the approval of the holders of a majority of any outstanding preferred shares, voting separately as a class, would be required to (a) adopt any plan of reorganization that would adversely affect the preferred shares and (b) take any action requiring a vote of security holders, including, among other things, changes in the Trust's subclassification as a closed-end management investment company or changes in its fundamental investment restrictions.

8. Additional Disclosures about Derivative Instruments and Hedging Activities:

Fair values of derivative instruments as of March 31, 2010:

Derivatives Not Accounted for as Hedging Instruments under Accounting Standards Codification (ASC) 815 (formerly FASB Statement 133)	Asset Derivatives		Liabilities Derivatives	
	Balance Sheet Location	Fair Value	Balance Sheet Location	Fair Value
Foreign Exchange Contracts	Receivables	\$ --	Payables*	\$ --
Total		\$ --		\$ --

* Foreign Exchange Contracts are shown as a net payable on the Statement of Assets and Liabilities.

Pioneer High Income Trust | Annual Report | 3/31/10 49

The effect of derivative instruments on the Statement of Operations for the year ended March 31, 2010 was as follows:

Derivatives Not Accounted for as Hedging Instruments under Accounting Standards Codification (ASC) 815 (formerly FASB Statement 133)	Location of Gain or (Loss) on Derivatives Recognized in Income	Realized Gain or (Loss) on Derivatives Recognized in Income	Change in Unrealized Gain (Loss) on Derivatives Recognized in Income
Foreign Exchange Contracts	Net realized gain on forward foreign currency contracts and other assets and liabilities denominated in foreign currencies	\$669,074	
Foreign Exchange Contracts	Change in net unrealized gain (loss)		\$(661,324)

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

on forward foreign
currency contracts and
other assets and
liabilities denominated
in foreign currencies

9. Subsequent Events

Subsequent to March 31, 2010 the Board of Trustees of the Trust declared a dividend from undistributed net investment income of \$0.1375 per common share payable April 30, 2010, to common shareowners of record on April 15, 2010.

Subsequent to March 31, 2010, dividends declared and paid on preferred shares totaled \$35,556 in aggregate for the two outstanding preferred share series through May 13, 2010.

In preparing these financial statements, PIM has evaluated the impact of all events and transactions for potential recognition or disclosure and has determined that other than disclosed above, there were no events requiring recognition or disclosure in the financial statements.

50 Pioneer High Income Trust | Annual Report | 3/31/10

Report of Independent Registered Public Accounting Firm

To the Board of Trustees and the Shareowners of
Pioneer High Income Trust:

We have audited the accompanying statement of assets and liabilities of Pioneer High Income Trust (the "Trust"), including the schedule of investments, as of March 31, 2010, and the related statement of operations for the year then ended, the statements of changes in net assets for each of the two years in the period then ended, and the financial highlights for each of the five years in the period then ended. These financial statements and financial highlights are the responsibility of the Trust's management. Our responsibility is to express an opinion on these financial statements and financial highlights based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements and financial highlights are free of material misstatement. We were not engaged to perform an audit of the Trust's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Trust's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements and financial highlights, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our procedures included confirmation of securities owned as of March 31, 2010, by correspondence with the custodian, selling or agent banks and brokers or by other appropriate auditing procedures where replies from brokers were not received. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements and financial highlights referred to above present fairly, in all material respects, the financial position of

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Pioneer High Income Trust at March 31, 2010, the results of its operations for the year then ended, the changes in its net assets for each of the two years in the period then ended, and the financial highlights for each of the five years in the period then ended, in conformity with U.S. generally accepted accounting principles.

/s/Ernst + Young LLP

Boston, Massachusetts
May 21, 2010

Pioneer High Income Trust | Annual Report | 3/31/10 51

ADDITIONAL INFORMATION (unaudited)

During the period, there have been no material changes in the Trust's investment objective or fundamental policies that have not been approved by the shareowners. There have been no changes in the Trust's charter or By-Laws that would delay or prevent a change in control of the Trust that have not been approved by the shareowners. During the period, there have been no changes in the principal risk factors associated with investment in the Trust. There were no changes in the persons who are primarily responsible for the day-to-day management of the Trust's portfolio.

Notice is hereby given in accordance with Section 23(c) of the Investment Company Act of 1940 that the Trust may purchase, from time to time, its common shares in the open market.

CEO CERTIFICATION DISCLOSURE (unaudited)

The Trust's Chief Executive Officer has submitted to the New York Stock Exchange the annual CEO certification as required by Section 303A.12(a) of the NYSE Listed Company Manual. In addition, the Trust has filed with the Securities and Exchange Commission the certification of its Chief Executive Officer and Chief Financial Officer required by Section 302 of the Sarbanes- Oxley Act.

52 Pioneer High Income Trust | Annual Report | 3/31/10

Results of Shareholder Meeting (unaudited)

At the annual meeting of shareowners held on September 22, 2009, and adjourned to October 8, 2009 with respect to Proposal 2, shareowners of Pioneer High Income Trust were asked to consider the proposals described below. A report of the total votes cast by the Trust's shareholders follows:

Proposal 1 -- To elect Class I Trustees.

Nominee	For	Withheld
Mary K. Bush	17,296,048	771,075
Thomas J. Perna	17,367,768	699,355
Marguerite A. Piret+	3,322	32

+ Elected by Preferred Shares only

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Proposal 2 -- To approve an Amended and Restated Management Agreement with Pioneer Investment Management, Inc.

For	Against	Abstain	Broker Non-Votes
12,630,550	369,189	334,425	4,737,065

IMPORTANT TAX INFORMATION (unaudited)

The following information is provided with respect to the ordinary income distributions paid by Pioneer High Income Trust during the fiscal year ended March 31, 2010:

Interest-Related Dividends for Non-U.S. Residents 78.37%*

* Represents the portion of the taxable ordinary income dividends eligible for tax exemption from U.S. withholding tax for nonresident aliens and foreign corporations.

Pioneer High Income Trust | Annual Report | 3/31/10 53

Approval of Investment Advisory Agreement (unaudited)

Pioneer Investment Management, Inc. (PIM) serves as the investment adviser to Pioneer High Income Trust (the Trust) pursuant to an investment advisory agreement between PIM and the Trust. In order for PIM to remain the investment adviser of the Trust, the Trustees of the Trust must determine annually whether to renew the investment advisory agreement for the Trust.

The contract review process began in March 2009 as the Trustees of the Trust agreed on, among other things, an overall approach and timeline for the process. In July 2009, the Trustees approved the format of the contract review materials and submitted their formal request to PIM to furnish information necessary to evaluate the terms of the investment advisory agreement. The contract review materials were provided to the Trustees in August 2009. After reviewing and discussing the materials, the Trustees submitted a request for additional information to PIM in September 2009, and materials were provided in response to this request. Meetings of the independent Trustees of the Trust were held in July, September, October, and November, 2009 to review and discuss the contract review materials. In addition, the Trustees took into account the information related to the Trust provided to the Trustees at each regularly scheduled meeting.

At a meeting held on November 10, 2009, based on their evaluation of the information provided by PIM and third parties, the Trustees of the Trust, including the independent Trustees voting separately, unanimously approved the renewal of the investment advisory agreement for another year. In considering the renewal of the investment advisory agreement, the Trustees considered various factors that they determined were relevant, including the factors described below. The Trustees did not identify any single factor as the controlling factor in determining to approve the renewal of the agreement.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Nature, Extent and Quality of Services

The Trustees considered the nature, extent and quality of the services that had been provided by PIM to the Trust, taking into account the investment objective and strategy of the Trust. The Trustees reviewed the terms of the investment advisory agreement. The Trustees also reviewed PIM's investment approach for the Trust, its research process and its process for trade execution. The Trustees considered the resources of PIM and the personnel of PIM who provide investment management services to the Trust. The Trustees considered the non-investment resources and personnel of PIM involved in PIM's services to the Trust, including PIM's compliance and legal resources and personnel. The Trustees also considered the substantial attention and high priority given by PIM's senior management to the Pioneer fund complex.

54 Pioneer High Income Trust | Annual Report | 3/31/10

The Trustees considered that PIM supervises and monitors the performance of the Trust's service providers and provides the Trust with personnel (including Trust officers) and other resources that are necessary for the Trust's business management and operations. The Trustees also considered that, as administrator, PIM is responsible for the administration of the Trust's business and other affairs. The Trustees considered the fees paid to PIM for the provision of administration services.

Based on these considerations, the Trustees concluded that the nature, extent and quality of services that had been provided by PIM to the Trust were satisfactory and consistent with the terms of the investment advisory agreement.

Performance of the Trust

The Trustees considered the performance results of the Trust over various time periods. They reviewed information comparing the Trust's performance with the performance of its peer group of funds as classified by Morningstar, Inc. (Morningstar), an independent provider of investment company data, and with the performance of the Trust's benchmark index. The Trustees considered that the Trust's annualized total return was in the second quintile of its Morningstar category for the one and three year periods ended June 30, 2009, and in the first quintile of its Morningstar category for the five year period ended June 30 2009. (In all quintile rankings referred to throughout this disclosure, first quintile is most favorable to the Trust's shareowners. Thus, highest relative performance would be first quintile and lowest relative expenses would also be first quintile.) The Trustees considered that the Trust's yield (at market value) was better than the average yield (at market value) of the funds in its peer group as of June 30, 2009. The Trustees noted that the yield of the Trust also compared favorably to the yield of the Trust's benchmark as of June 30, 2009. The Trustees reviewed data provided by Pioneer showing how leverage had benefited the Trust's common shareholders. The Trustees concluded that the investment performance of the Trust was satisfactory.

Management Fee and Expenses

The Trustees considered information on the fees and expenses of the Trust in comparison to the management fees and the expense ratios of a peer group of funds selected on the basis of criteria determined by the independent Trustees for this purpose using data provided by Strategic Insight Mutual Fund Research and Consulting, LLC (Strategic Insight), an independent third party.

The Trustees considered that the Trust's management fee rate based on net assets attributable to common shares for the twelve months ended June 30, 2009 was in the fourth quintile relative to the management fees paid by other funds in its Strategic Insight peer group for the comparable period. The Trustees considered the effect of leverage on the Trust's management fee relative to its peers by reviewing the management fee ratios of the Trust and its peers based on managed

assets rather than net assets attributable to common shares.

They noted that, on that basis, the Trust's management fee for the twelve months ended June 30, 2009 was in the second quintile relative to its peer group for the comparable period. The Trustees also considered that the Trust's expense ratio based on net assets attributable to common shares for the twelve months ended June 30, 2009 was in the third quintile relative to its Strategic Insight peer group for the comparable period.

The Trustees also reviewed management fees charged by PIM to its institutional and other clients. In evaluating the fees associated with PIM's client accounts, the Trustees took into account the respective demands, resources and complexity associated with the Trust and client accounts. The Trustees noted that in some instances the fee rates for those clients were lower than the management fee for the Trust and considered that, under the investment advisory agreement with the Trust, PIM performs additional services for the Trust that it does not provide to those other clients or services that are broader in scope, including oversight of the Trust's other service providers and activities related to compliance and the extensive regulatory and tax regimes to which the Trust is subject.

The Trustees concluded that the management fee payable by the Trust to PIM was reasonable in relation to the nature and quality of the services provided by PIM. The Trustees also concluded that the Trust's expense ratio was reasonable taking into account the nature and quality of services provided by PIM.

Profitability

The Trustees considered information provided by PIM regarding the profitability of PIM with respect to the advisory services provided by PIM to the Trust, including the methodology used by PIM in allocating certain of its costs to the management of the Trust. The Trustees also considered PIM's profit margin in connection with the overall operation of the Trust. They further reviewed the financial results realized by PIM and its affiliates from non-fund businesses. The Trustees considered PIM's profit margins with respect to the Trust in comparison to the limited industry data available and noted that the profitability of any adviser was affected by numerous factors, including its organizational structure and method for allocating expenses. The Trustees concluded that PIM's profitability with respect to the management of the Trust was not unreasonable.

Economies of Scale

The Trustees considered the extent to which PIM may realize economies of scale or other efficiencies in managing and supporting the Trust. Since the Trust is a closed-end fund that has not raised additional capital, the Trustees concluded that economies of scale were not a relevant consideration in the renewal of the investment advisory agreement.

Other Benefits

The Trustees considered the other benefits to PIM from its relationship with the Trust. The Trustees considered the character and amount of fees paid by the Trust, other than under the investment advisory agreement, for services provided by PIM and its affiliates. The Trustees further considered the revenues and profitability of PIM's businesses other than the fund business. The Trustees considered the intangible benefits to PIM by virtue of its relationship with the Trust and the other Pioneer funds. The Trustees concluded that the receipt of these benefits was reasonable in the context of the overall relationship between

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

PIM and the Trust.

Conclusion

After consideration of the factors described above as well as other factors, the Trustees, including all of the independent Trustees, concluded that the investment advisory agreement between PIM and the Trust, including the fees payable thereunder, was fair and reasonable and voted to approve the proposed renewal of the investment advisory agreement for the Trust.

Pioneer High Income Trust | Annual Report | 3/31/10 57

Trustees, Officers and Service Providers

Investment Adviser

Pioneer Investment Management, Inc.

Custodian

Brown Brothers Harriman & Co.

Independent Registered Public Accounting Firm

Ernst & Young LLP

Legal Counsel

Bingham McCutchen LLP

Transfer Agent

Pioneer Investment Management Shareholder Services, Inc.

Shareowner Services and Sub-Transfer Agent

American Stock Transfer & Trust Company

Preferred Share Auction/Transfer Agent and Registrar

Deutsche Bank Trust Company Americas

Sub-Administrator

Princeton Administrators, LLC

Proxy Voting Policies and Procedures of the Trust are available without charge, upon request, by calling our toll free number (1-800-225-6292). Information regarding how the Trust voted proxies relating to portfolio securities during the most recent 12-month period ended June 30 is publicly available to shareowners at www.pioneerinvestments.com. This information is also available on the Securities and Exchange Commission's web site at <http://www.sec.gov>.

Trustees and Officers

The Board of Trustees provides broad supervision over the Trust's affairs. The officers of the Trust are responsible for the Trust's operations. The Trustees and officers are listed below, together with their principal occupations during the past five years. Trustees who are interested persons of the Trust within the meaning of the 1940 Act are referred to as Interested Trustees. Trustees who are not interested persons of the Trust are referred to as Independent Trustees. Each of the Trustees, except Mr. West, serves as a Trustee of each of the 57 U.S. registered investment portfolios for which Pioneer serves as investment adviser (the "Pioneer Funds"). Mr. West serves as a Trustee of 44 U.S. registered investment portfolios for which Pioneer serves as investment adviser. The address for all Trustees and all officers of the Trust is 60 State Street, Boston, Massachusetts 02109.

58 Pioneer High Income Trust | Annual Report | 3/31/10

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Interested Trustees

Name and Age	Position Held With the Trust	Length of Service and Term of Office
John F. Cogan, Jr. (83)*	Chairman of the Board, Trustee and President	Class II Trustee since 2002. Term expires in 2010. Elected by Preferred Shares only.
Daniel K. Kingsbury (51)*	Trustee and Executive Vice President	Class III Trustee since 2007. Term expires in 2011.

Interested Trustees

Name and Age	Principal Occupation During Past Five Years	
John F. Cogan, Jr. (83)*	Non-Executive Chairman and a Director of Pioneer Investment Management USA Inc. ("PIM-USA"); Chairman and a Director of Pioneer; Chairman and Director of Pioneer Institutional Asset Management, Inc. (since 2006); Director of Pioneer Alternative Investment Management Limited (Dublin); President and a Director of Pioneer Alternative Investment Management (Bermuda) Limited and affiliated funds; Deputy Chairman and a Director of Pioneer Global Asset Management S.p.A. ("PGAM") (until April 2010); Director of PLOGLOBAL Real Estate Investment Fund (Russia) (until June 2006); Director of Nano-C, Inc. (since 2003); Director of Cole Management Inc. (since 2004); Director of Fiduciary Counseling, Inc.; President and Director of Pioneer Funds Distributor, Inc. ("PFD") (until May 2006); President of all of the Pioneer Funds; and Of Counsel, Wilmer Cutler Pickering Hale and Dorr LLP	O H N
Daniel K. Kingsbury (51)*	Director, CEO and President of PIM USA (since February 2007); Director and President of Pioneer and Pioneer Institutional Asset Management, Inc. (since February 2007); Executive Vice President of all of the Pioneer Funds (since March 2007); Director of PGAM (2007 - 2010); Head of New Europe Division, PGAM (2000 - 2005); Head of New Markets Division, PGAM (2005 - 2007)	N

* Mr. Cogan and Mr. Kingsbury are Interested Trustees because they are officers or directors of the Trust's investment adviser and certain of its affiliates.

Independent Trustees

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Name and Age	Position Held With the Trust	Length of Service and Term of Office
David R. Bock (66)	Trustee	Class II Trustee since 2005. Term expires in 2010.

Independent Trustees

Name and Age	Principal Occupation During Past Five Years	Other Held
David R. Bock (66)	Interim Chief Executive Officer, Oxford Analytica, Inc. (privately-held research and consulting company) (2010 - present); Managing Partner, Federal City Capital Advisors (corporate advisory services company) (1997 to 2004 and 2008 - present); Executive Vice President and Chief Financial Officer, I-trax, Inc. (publicly traded health care services company) (2004 - 2007); and Executive Vice President and Chief Financial Officer, Pedestal Inc. (internet-based mortgage trading company (2000 - 2002)	Director Investment Advisor (1985 - 2009) York mortgage

60 Pioneer High Income Trust | Annual Report | 3/31/10

Name and Age	Position Held With the Trust	Length of Service and Term of Office
Mary K. Bush (62)	Trustee	Class I Trustee since 2002. Term expires in 2012.

Name and Age	Principal Occupation During Past Five Years	Other Director Held by t
Mary K. Bush (62)	President, Bush International, LLC (international financial advisory firm) (1991 - present); Managing Director, Federal Housing Finance Board (oversight of Federal Home Loan Bank system) (1989 - 1991); Vice President and Head of International Finance, Federal National Mortgage Association (1988 - 1989); U.S. Alternate Executive Director, International Monetary Fund (1984 - 1988); Executive Assistant to Deputy Secretary of the U.S. Treasury, U.S. Treasury Department (1982 - 1984); Vice President and Team Leader in Corporate Banking, Bankers Trust Co. (1976 - 1982)	Director (2008 - p cover Fin issuer an vices) (2 Director (engine m 2009); Di (airline present); national rity, def nology fi Member, B

ment Comp
present);
Corporati
Director
ance Corp
Former Di
Chemicals
cals) (20
tor, R.J.
Inc. (tob
Former Di
(1997 - 2

61

Independent Trustees (continued)

Name and Age	Position Held With the Trust	Length of Service and Term of Office
Benjamin M. Friedman (65)	Trustee	Class III Trustee since 2008. Term expires in 2011.
Margaret B.W. Graham (62)	Trustee	Class III Trustee since 2002. Term expires in 2011.
Thomas J. Perna (59)	Trustee	Class I Trustee since 2006. Term expires in 2012.
Marguerite A. Piret (61)	Trustee	Class I Trustee since 2002. Term expires in 2012. Elected by Preferred Shares only.
Stephen K. West (81)	Trustee	Class II Trustee since 2002. Term expires in 2010.

Name and Age	Principal Occupation During Past Five Years
Benjamin M. Friedman (65)	William Joseph Maier Professor of Political Economy, Harvard University (1972 - present)

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

 Margaret B.W. Graham (62) Founding Director, Vice-President and Corporate Secretary, The Winthrop Group, Inc. (consulting firm); and Desautels Faculty of Management, McGill University (1999 - present); and Manager of Research Operations and Organizational Learning, Xerox PARC, Xerox's Advance Research Center (1990 - 1994)

Thomas J. Perna (59) Chairman and Chief Executive Officer, Quadriserv, Inc. (technology products for securities lending industry) (2008 - present); Private investor (2004 - 2008); and Senior Executive Vice President, The Bank of New York (financial and securities services) (1986 - 2004)

Marguerite A. Piret (61) President and Chief Executive Officer, Newbury, Piret & Company, Inc. (investment banking firm) (1981 - present)

Stephen K. West (81) Senior Counsel, Sullivan & Cromwell LLP (law firm) (1998 - present); Partner, Sullivan & Cromwell LLP (prior to 1998)

62 Pioneer High Income Trust | Annual Report | 3/31/10

Trust Officers

Name and Age	Position Held with the Trust	Length of Service and Term of Office
Christopher J. Kelley (45)	Assistant Secretary	Since 2003. Serves at the discretion of the Board.
Mark E. Bradley (50)	Treasurer	Since 2008. Serves at the discretion of the Board.
Luis I. Presutti (45)	Assistant Treasurer	Since 2002. Serves at the discretion of the Board.
Gary Sullivan (52)	Assistant Treasurer	Since 2002. Serves at the discretion of the Board.

Trust Officers

 Name and Age Principal Occupation During Past Five Years

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Christopher J. Kelley (45) Vice President and Associate General Counsel of Pioneer since January 2008 and Assistant Secretary of all of the Pioneer Funds since September 2003; Vice President and Senior Counsel of Pioneer from July 2002 to December 2007

Mark E. Bradley (50) Vice President - Fund Accounting, Administration and Controllershship Services of Pioneer; and Treasurer of all of the Pioneer Funds since March 2008; Deputy Treasurer of Pioneer from March 2004 to February 2008; Assistant Treasurer of all of the Pioneer Funds from March 2004 to February 2008

Luis I. Presutti (45) Assistant Vice President - Fund Accounting, Administration and Controllershship Services of Pioneer; and Assistant Treasurer of all of the Pioneer Funds

Gary Sullivan (52) Fund Accounting Manager - Fund Accounting, Administration and Controllershship Services of Pioneer; and Assistant Treasurer of all of the Pioneer Funds

Pioneer High Income Trust | Annual Report | 3/31/10

63

Trust Officers (continued)

Name and Age	Position Held with the Trust	Length of Service and Term of Office
David F. Johnson (30)	Assistant Treasurer	Since 2009. Serves at the discretion of the Board.
Jean M. Bradley (57)	Chief Compliance Officer	Since 2010. Serves at the discretion of the Board.

Name and Age	Principal Occupation During Past Five Years	Other Held b
David F. Johnson (30)	Fund Administration Manager - Fund Accounting, Administration and Controllershship Services since November 2008 and Assistant Treasurer of all of the Pioneer Funds since January 2009; Client Service Manager - Institutional Investor Services at State Street Bank from March 2003 to March 2007	None
Jean M. Bradley (57)	Chief Compliance Officer of Pioneer and of all the Pioneer Funds since March 2010; Director of Adviser and Portfolio Compliance at Pioneer since October 2005; Senior Compliance Officer for Columbia Management Advisers, Inc. from October 2003 to October 2005	None

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The outstanding capital stock of PFD, Pioneer and Pioneer Investment Management Shareholder Services, Inc. ("PIMSS") is indirectly wholly owned by UniCredit S.p.A. ("UniCredit"), one of the largest banking groups in Italy. Pioneer, the Trust's investment adviser, provides investment management and financial services to mutual funds, institutional and other clients.

64 Pioneer High Income Trust | Annual Report | 3/31/10

This page for your notes.

Pioneer High Income Trust | Annual Report | 3/31/10 65

This page for your notes.

66 Pioneer High Income Trust | Annual Report | 3/31/10

This page for your notes.

Pioneer High Income Trust | Annual Report | 3/31/10 67

This page for your notes.

68 Pioneer High Income Trust | Annual Report | 3/31/10

How to Contact Pioneer

We are pleased to offer a variety of convenient ways for you to contact us for assistance or information.

You can call American Stock Transfer & Trust Company (AST) for:

Account Information

1-800-710-0935

Or write to AST:

For

General inquiries, lost dividend checks,
change of address, lost stock certificates,
stock transfer

Write to

American Stock
Transfer & Trust
Operations Center
6201 15th Ave.
Brooklyn, NY 11219

Dividend reinvestment plan (DRIP)

American Stock
Transfer & Trust
Wall Street Station
P.O. Box 922
New York, NY 10269-0560

Website

www.amstock.com

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

For additional information, please contact your investment advisor or visit our web site www.pioneerinvestments.com.

The Trust files a complete statement of investments with the Securities and Exchange Commission for the first and third quarters for each fiscal year on Form N-Q. Shareowners may view the filed Form N-Q by visiting the Commission's web site at <http://www.sec.gov>. The filed form may also be viewed and copied at the Commission's Public Reference Room in Washington, DC. Information regarding the operations of the Public Reference Room may be obtained by calling 1-800-SEC-0330.

The Trust's Chief Executive Officer is required by the New York Stock Exchange's Listing Standards to file annually with the Exchange a certification that he is not aware of any violation by the Trust of the Exchange's Corporate Governance Standards applicable to the Trust. The Trust has filed such certification.

ITEM 2. CODE OF ETHICS.

(a) Disclose whether, as of the end of the period covered by the report, the registrant has adopted a code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, regardless of whether these individuals are employed by the registrant or a third party. If the registrant has not adopted such a code of ethics, explain why it has not done so.

The registrant has adopted, as of the end of the period covered by this report, a code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer and controller.

(b) For purposes of this Item, the term "code of ethics" means written standards that are reasonably designed to deter wrongdoing and to promote:

- (1) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;
- (2) Full, fair, accurate, timely, and understandable disclosure in reports and documents that a registrant files with, or submits to, the Commission and in other public communications made by the registrant;
- (3) Compliance with applicable governmental laws, rules, and regulations;
- (4) The prompt internal reporting of violations of the code to an appropriate person or persons identified in the code; and
- (5) Accountability for adherence to the code.

(c) The registrant must briefly describe the nature of any amendment, during the period covered by the report, to a provision of its code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, regardless of whether these individuals are employed by the registrant or a third party, and that relates to any element of the code of ethics definition enumerated in paragraph (b) of this Item. The registrant must file a copy of any such amendment as an exhibit pursuant to Item 10(a), unless the registrant has elected to satisfy paragraph (f) of this Item by posting its code of ethics on its website pursuant to paragraph (f)(2) of this Item, or by

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

undertaking to provide its code of ethics to any person without charge, upon request, pursuant to paragraph (f)(3) of this Item.

The registrant has made no amendments to the code of ethics during the period covered by this report.

(d) If the registrant has, during the period covered by the report, granted a waiver, including an implicit waiver, from a provision of the code of ethics to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, regardless of whether these individuals are employed by the registrant or a third party, that relates to one or more of the items set forth in paragraph (b) of this Item, the registrant must briefly describe the nature of the waiver, the name of the person to whom the waiver was granted, and the date of the waiver.

Not applicable.

(e) If the registrant intends to satisfy the disclosure requirement under paragraph (c) or (d) of this Item regarding an amendment to, or a waiver from, a provision of its code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions and that relates to any element of the code of ethics definition enumerated in paragraph (b) of this Item by posting such information on its Internet website, disclose the registrant's Internet address and such intention.

Not applicable.

(f) The registrant must:

(1) File with the Commission, pursuant to Item 10(a), a copy of its code of ethics that applies to the registrant's principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, as an exhibit to its annual report on this Form N-CSR;

(2) Post the text of such code of ethics on its Internet website and disclose, in its most recent report on this Form N-CSR, its Internet address and the fact that it has posted such code of ethics on its Internet website; or

(3) Undertake in its most recent report on this Form N-CSR to provide to any person without charge, upon request, a copy of such code of ethics and explain the manner in which such request may be made.
See Item 10(2)

ITEM 3. AUDIT COMMITTEE FINANCIAL EXPERT.

(a) (1) Disclose that the registrant's board of trustees has determined that the registrant either:

(i) Has at least one audit committee financial expert serving on its audit committee; or

(ii) Does not have an audit committee financial expert serving on its audit committee.

The registrant's Board of Trustees has determined that the registrant has at least one audit committee financial expert.

(2) If the registrant provides the disclosure required by paragraph

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

(a)(1)(i) of this Item, it must disclose the name of the audit committee financial expert and whether that person is "independent." In order to be considered "independent" for purposes of this Item, a member of an audit committee may not, other than in his or her capacity as a member of the audit committee, the board of trustees, or any other board committee:

- (i) Accept directly or indirectly any consulting, advisory, or other compensatory fee from the issuer; or
- (ii) Be an "interested person" of the investment company as defined in Section 2(a)(19) of the Act (15 U.S.C. 80a-2(a)(19)).

Ms. Marguerite A. Piret, an independent trustee, is such an audit committee financial expert.

(3) If the registrant provides the disclosure required by paragraph (a)(1)(ii) of this Item, it must explain why it does not have an audit committee financial expert.

Not applicable.

ITEM 4. PRINCIPAL ACCOUNTANT FEES AND SERVICES.

(a) Disclose, under the caption AUDIT FEES, the aggregate fees billed for each of the last two fiscal years for professional services rendered by the principal accountant for the audit of the registrant's annual financial statements or services that are normally provided by the accountant in connection with statutory and regulatory filings or engagements for those fiscal years.

Audit Fees

Fees for audit services provided to the Trust, including fees associated with the filings to update its Form N-2 and issuance of comfort letters, totaled approximately \$41,600 in 2010 and \$41,300 in 2009.

(b) Disclose, under the caption AUDIT-RELATED FEES, the aggregate fees billed in each of the last two fiscal years for assurance and related services by the principal accountant that are reasonably related to the performance of the audit of the registrant's financial statements and are not reported under paragraph (a) of this Item. Registrants shall describe the nature of the services comprising the fees disclosed under this category.

Audit-Related Fees

Audit related fees for the Trust's audit related services totaled approximately \$9,652 and \$9,652 in 2010 and 2009, respectively.

(c) Disclose, under the caption TAX FEES, the aggregate fees billed in each of the last two fiscal years for professional services rendered by the principal accountant for tax compliance, tax advice, and tax planning. Registrants shall describe the nature of the services comprising the fees disclosed under this category.

Tax Fees

Fees for tax compliance services, primarily for tax returns, totaled approximately \$8,290 and \$8,290 for 2010 and 2009, respectively.

(d) Disclose, under the caption ALL OTHER FEES, the aggregate fees billed in each of the last two fiscal years for products and services provided by the principal accountant, other than the services reported in paragraphs (a) through

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

(c) of this Item. Registrants shall describe the nature of the services comprising the fees disclosed under this category.

All Other Fees

There were no other fees paid in 2010 and 2009.

(e) (1) Disclose the audit committee's pre-approval policies and procedures described in paragraph (c) (7) of Rule 2-01 of Regulation S-X.

PIONEER FUNDS

**APPROVAL OF AUDIT, AUDIT-RELATED, TAX AND OTHER SERVICES
PROVIDED BY THE INDEPENDENT AUDITOR**

SECTION I - POLICY PURPOSE AND APPLICABILITY

The Pioneer Funds recognize the importance of maintaining the independence of their outside auditors. Maintaining independence is a shared responsibility involving Pioneer Investment Management, Inc ("PIM"), the audit committee and the independent auditors.

The Funds recognize that a Fund's independent auditors: 1) possess knowledge of the Funds, 2) are able to incorporate certain services into the scope of the audit, thereby avoiding redundant work, cost and disruption of Fund personnel and processes, and 3) have expertise that has value to the Funds. As a result, there are situations where it is desirable to use the Fund's independent auditors for services in addition to the annual audit and where the potential for conflicts of interests are minimal. Consequently, this policy, which is intended to comply with Rule 210.2-01(C) (7), sets forth guidelines and procedures to be followed by the Funds when retaining the independent audit firm to perform audit, audit-related tax and other services under those circumstances, while also maintaining independence.

Approval of a service in accordance with this policy for a Fund shall also constitute approval for any other Fund whose pre-approval is required pursuant to Rule 210.2-01(c) (7) (ii).

In addition to the procedures set forth in this policy, any non-audit services that may be provided consistently with Rule 210.2-01 may be approved by the Audit Committee itself and any pre-approval that may be waived in accordance with Rule 210.2-01(c) (7) (i) (C) is hereby waived.

Selection of a Fund's independent auditors and their compensation shall be determined by the Audit Committee and shall not be subject to this policy.

SECTION II - POLICY

SERVICE CATEGORY	SERVICE CATEGORY DESCRIPTION	SPECIFIC PRE-APPROVED SERVICE SUBCATEGORIES
I. AUDIT SERVICES	Services that are directly related to performing the independent audit of the Funds	<ul style="list-style-type: none"> o Accounting research assistance o SEC consultation, registration statements, and reporting o Tax accrual related matters o Implementation of new accounting standards o Compliance letters (e.g. rating agency letters) o Regulatory reviews and assistance

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- regarding financial matters
- o Semi-annual reviews (if requested)
- o Comfort letters for closed end offerings

II.
AUDIT-RELATED
SERVICES

Services which are not prohibited under Rule 210.2-01(C)(4) (the "Rule") and are related extensions of the audit services support the audit, or use the knowledge/expertise gained from the audit procedures as a foundation to complete the project. In most cases, if the Audit-Related Services are not performed by the Audit firm, the scope of the Audit Services would likely increase. The Services are typically well-defined and governed by accounting professional standards (AICPA, SEC, etc.)

- o AICPA attest and agreed-upon procedures
- o Technology control assessments
- o Financial reporting control assessments
- o Enterprise security architecture assessment

AUDIT COMMITTEE APPROVAL POLICY

AUDIT COMMITTEE
REPORTING POLICY

- o "One-time" pre-approval for the audit period for all pre-approved specific service subcategories. Approval of the independent auditors as auditors for a Fund shall constitute pre approval for these services.

- o A summary of all such services and related fees reported at each regularly scheduled Audit Committee meeting.

- o "One-time" pre-approval for the fund fiscal year within a specified dollar limit for all pre-approved specific service subcategories

- o A summary of all such services and related fees (including comparison to specified dollar limits) reported quarterly.

- o Specific approval is needed to exceed the pre-approved dollar limit for these services (see general Audit Committee approval policy below for details on obtaining specific approvals)

- o Specific approval is needed to use the Fund's auditors for Audit-Related Services not denoted as "pre-approved", or to add a specific service subcategory as "pre-approved"

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

SECTION III - POLICY DETAIL, CONTINUED

SERVICE CATEGORY	SERVICE CATEGORY DESCRIPTION	SPECIFIC PRE-APPROVED SERVICE SUBCATEGORIES
III. TAX SERVICES	Services which are not prohibited by the Rule, if an officer of the Fund determines that using the Fund's auditor to provide these services creates significant synergy in the form of efficiency, minimized disruption, or the ability to maintain a desired level of confidentiality.	<ul style="list-style-type: none"> o Tax planning and support o Tax controversy assistance o Tax compliance, tax returns, excise tax returns and support o Tax opinions

AUDIT COMMITTEE APPROVAL POLICY	AUDIT COMMITTEE REPORTING POLICY
<ul style="list-style-type: none"> o "One-time" pre-approval for the fund fiscal year within a specified dollar limit o Specific approval is needed to exceed the pre-approved dollar limits for these services (see general Audit Committee approval policy below for details on obtaining specific approvals) o Specific approval is needed to use the Fund's auditors for tax services not denoted as pre-approved, or to add a specific service subcategory as "pre-approved" 	<ul style="list-style-type: none"> o A summary of all such services and related fees (including comparison to specified dollar limits) reported quarterly.

SECTION III - POLICY DETAIL, CONTINUED

SERVICE CATEGORY	SERVICE CATEGORY	SPECIFIC PRE-APPROVED SERVICE SUBCATEGORIES
------------------	------------------	---

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

DESCRIPTION

<p>IV. OTHER SERVICES</p> <p>A. SYNERGISTIC, UNIQUE QUALIFICATIONS</p>	<p>Services which are not prohibited by the Rule, if an officer of the Fund determines that using the Fund's auditor to provide these services creates significant synergy in the form of efficiency, minimized disruption, the ability to maintain a desired level of confidentiality, or where the Fund's auditors possess unique or superior qualifications to provide these services, resulting in superior value and results for the Fund.</p>	<ul style="list-style-type: none"> o Business Risk Management support o Other control and regulatory compliance projects
--	---	--

AUDIT COMMITTEE APPROVAL POLICY

AUDIT COMMITTEE REPORTING POLICY

- | | |
|---|---|
| <ul style="list-style-type: none"> o "One-time" pre-approval for the fund fiscal year within a specified dollar limit o Specific approval is needed to exceed the pre-approved dollar limits for these services (see general Audit Committee approval policy below for details on obtaining specific approvals) o Specific approval is needed to use the Fund's auditors for "Synergistic" or "Unique Qualifications" Other Services not denoted as pre-approved to the left, or to add a specific service subcategory as "pre-approved" | <ul style="list-style-type: none"> o A summary of all such services and related fees (including comparison to specified dollar limits) reported quarterly. |
|---|---|

SECTION III - POLICY DETAIL, CONTINUED

SERVICE CATEGORY

SERVICE CATEGORY DESCRIPTION

SPECIFIC PROHIBITED SERVICE SUBCATEGORIES

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

PROHIBITED SERVICES	Services which result in the auditors losing independence status under the Rule.	<ol style="list-style-type: none">1. Bookkeeping or other services related to the accounting records or financial statements of the audit client*2. Financial information systems design and implementation*3. Appraisal or valuation services, fairness* opinions, or contribution-in-kind reports4. Actuarial services (i.e., setting actuarial reserves versus actuarial audit work)*5. Internal audit outsourcing services*6. Management functions or human resources7. Broker or dealer, investment advisor, or investment banking services8. Legal services and expert services unrelated to the audit9. Any other service that the Public Company Accounting Oversight Board determines, by regulation, is impermissible
---------------------	--	---

AUDIT COMMITTEE APPROVAL POLICY

- o These services are not to be performed with the exception of the(*) services that may be permitted if they would not be subject to audit procedures at the audit client (as defined in rule 2-01(f)(4)) level the firm providing the service.

AUDIT COMMITTEE REPORTING POLICY

- o A summary of all services and related fees reported at each regularly scheduled Audit Committee meeting will serve as continual confirmation that has not provided any restricted services.

GENERAL AUDIT COMMITTEE APPROVAL POLICY:

- o For all projects, the officers of the Funds and the Fund's auditors will each make an assessment to determine that any proposed projects will not impair independence.
- o Potential services will be classified into the four non-restricted service categories and the "Approval of Audit, Audit-Related, Tax and Other Services" Policy above will be applied. Any services outside the specific pre-approved service subcategories set forth above must be specifically approved by the Audit Committee.
- o At least quarterly, the Audit Committee shall review a report summarizing the services by service category, including fees, provided by the Audit firm as set forth in the above policy.

(2) Disclose the percentage of services described in each of paragraphs (b) through (d) of this Item that were approved by the audit committee pursuant

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

to paragraph (c) (7) (i) (C) of Rule 2-01 of Regulation S-X.

Non-Audit Services

Beginning with non-audit service contracts entered into on or after May 6, 2003, the effective date of the new SEC pre-approval rules, the Trust's audit committee is required to pre-approve services to affiliates defined by SEC rules to the extent that the services are determined to have a direct impact on the operations or financial reporting of the Trust. For the years ended March 31, 2010 and 2009, there were no services provided to an affiliate that required the Trust's audit committee pre-approval.

(f) If greater than 50 percent, disclose the percentage of hours expended on the principal accountant's engagement to audit the registrant's financial statements for the most recent fiscal year that were attributed to work performed by persons other than the principal accountant's full-time, permanent employees.

N/A

(g) Disclose the aggregate non-audit fees billed by the registrant's accountant for services rendered to the registrant, and rendered to the registrant's investment adviser (not including any sub-adviser whose role is primarily portfolio management and is subcontracted with or overseen by another investment adviser), and any entity controlling, controlled by, or under common control with the adviser that provides ongoing services to the registrant for each of the last two fiscal years of the registrant.

The aggregate non-audit fees for the Trust and affiliates, as previously defined, totaled approximately \$17,942 in 2010 and \$17,942 in 2009.

(h) Disclose whether the registrant's audit committee of the board of trustees has considered whether the provision of non-audit services that were rendered to the registrant's investment adviser (not including any subadviser whose role is primarily portfolio management and is subcontracted with or overseen by another investment adviser), and any entity controlling, controlled by, or under common control with the investment adviser that provides ongoing services to the registrant that were not pre-approved pursuant to paragraph (c) (7) (ii) of Rule 2-01 of Regulation S-X is compatible with maintaining the principal accountant's independence.

The Fund's audit committee of the Board of Trustees has considered whether the provision of non-audit services that were rendered to the Affiliates (as defined) that were not pre-approved pursuant to paragraph (c) (7) (ii) of Rule 2-01 of Regulation S-X is compatible with maintaining the principal accountant's independence.

Item 5. Audit Committee of Listed Registrants

(a) If the registrant is a listed issuer as defined in Rule 10A-3 under the Exchange Act (17 CFR 240.10A-3), state whether or not the registrant has a separately-designated standing audit committee established in accordance with Section 3(a) (58) (A) of the Exchange Act (15 U.S.C. 78c(a) (58) (A)). If the registrant has such a committee, however designated, identify each committee member. If the entire board of directors is acting as the registrants audit committee as specified in Section 3(a) (58) (B) of the Exchange Act (15 U.S.C. 78c(a) (58) (B)), so state.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

The registrant has a separately-designated standing audit committee established in accordance with Section 3(a)(58)(A) of the Exchange Act (15 U.S.C. 78c(a)(58)(A)).

(b) If applicable, provide the disclosure required by Rule 10A-3(d) under the Exchange Act (17 CFR 240.10A-3(d)) regarding an exemption from the listing standards for audit committees.

N/A

Item 6. Schedule of Investments.

File Schedule I Investments in securities of unaffiliated issuers as of the close of the reporting period as set forth in 210.12-12 of Regulation S-X [17 CFR 210.12-12], unless the schedule is included as part of the report to shareholders filed under Item 1 of this Form.

Included in Item 1

ITEM 7. DISCLOSURE OF PROXY VOTING POLICIES AND PROCEDURES FOR CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

A closed-end management investment company that is filing an annual report on this Form N-CSR must, unless it invests exclusively in non-voting securities, describe the policies and procedures that it uses to determine how to vote proxies relating to portfolio securities, including the procedures that the company uses when a vote presents a conflict between the interests of its shareholders, on the one hand, and those of the company's investment adviser; principal underwriter; or any affiliated person (as defined in Section 2(a)(3) of the Investment Company Act of 1940 (15 U.S.C. 80a-2(a)(3)) and the rules thereunder) of the company, its investment adviser, or its principal underwriter, on the other. Include any policies and procedures of the company's investment adviser, or any other third party, that the company uses, or that are used on the company's behalf, to determine how to vote proxies relating to portfolio securities.

Proxy Voting Policies and Procedures of Pioneer Investment Management, Inc.

VERSION DATED July, 2004

Overview

Pioneer Investment Management, Inc. ("Pioneer") is a fiduciary that owes each of its client's duties of care and loyalty with respect to all services undertaken on the client's behalf, including proxy voting. When Pioneer has been delegated proxy-voting authority for a client, the duty of care requires Pioneer to monitor corporate events and to vote the proxies. To satisfy its duty of loyalty, Pioneer must place its client's interests ahead of its own and must cast proxy votes in a manner consistent with the best interest of its clients. Pioneer will vote all proxies presented in a timely manner.

The Proxy Voting Policies and Procedures are designed to complement Pioneer's investment policies and procedures regarding its general responsibility to monitor the performance and/or corporate events of companies that are issuers of securities held in accounts managed by Pioneer. Pioneer's Proxy Voting Policies summarize Pioneer's position on a number of issues solicited by companies held by Pioneer's clients. The policies are guidelines that provide a general indication on how Pioneer

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

would vote but do not include all potential voting scenarios.

Pioneer's Proxy Voting Procedures detail monitoring of voting, exception votes, and review of conflicts of interest and ensure that case-by-case votes are handled within the context of the overall guidelines (i.e. best interest of client). The overriding goal is that all proxies for US and non-US companies that are received promptly will be voted in accordance with Pioneer's policies or specific client instructions. All shares in a company held by Pioneer-managed accounts will be voted alike, unless a client has given us specific voting instructions on an issue or has not delegated authority to us or the Proxy Voting Oversight Group determines that the circumstances justify a different approach.

Pioneer does not delegate the authority to vote proxies relating to its clients to any of its affiliates, which include other subsidiaries of UniCredito.

Any questions about these policies and procedures should be directed to the Proxy Coordinator.

1

Proxy Voting Procedures

Proxy Voting Service

Pioneer has engaged an independent proxy voting service to assist in the voting of proxies. The proxy voting service works with custodians to ensure that all proxy materials are received by the custodians and are processed in a timely fashion. To the extent applicable, the proxy voting service votes all proxies in accordance with the proxy voting policies established by Pioneer. The proxy voting service will refer proxy questions to the Proxy Coordinator (described below) for instructions under circumstances where: (1) the application of the proxy voting guidelines is unclear; (2) a particular proxy question is not covered by the guidelines; or (3) the guidelines call for specific instructions on a case-by-case basis. The proxy voting service is also requested to call to the Proxy Coordinator's attention specific proxy questions that, while governed by a guideline, appear to involve unusual or controversial issues. Pioneer reserves the right to attend a meeting in person and may do so when it determines that the company or the matters to be voted on at the meeting are strategically important to its clients.

Proxy Coordinator

Pioneer's Director of Investment Operations (the "Proxy Coordinator") coordinates the voting, procedures and reporting of proxies on behalf of Pioneer's clients. The Proxy Coordinator will deal directly with the proxy voting service and, in the case of proxy questions referred by the proxy voting service, will solicit voting recommendations and instructions from the Director of Portfolio Management US or, to the extent applicable, investment sub-advisers. The Proxy Coordinator is responsible for ensuring that these questions and referrals are responded to in a timely fashion and for transmitting appropriate voting instructions to the proxy voting service. The Proxy Coordinator is responsible for verifying with the Compliance Department whether Pioneer's voting power is subject to any limitations or guidelines issued by the client (or in the case of an employee benefit plan, the plan's trustee or other fiduciaries).

Referral Items

From time to time, the proxy voting service will refer proxy questions to the Proxy Coordinator that are described by Pioneer's policy as to be voted on a case-by-case basis, that are not covered by Pioneer's guidelines or

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

where Pioneer's guidelines may be unclear with respect to the matter to be voted on. Under such certain circumstances, the Proxy Coordinator will seek a written voting recommendation from the Director of Portfolio Management US. Any such recommendation will include: (i) the manner in which the proxies should be voted; (ii) the rationale underlying any such decision; and (iii) the disclosure of any contacts or communications made between Pioneer and any outside parties concerning the proxy proposal prior to the time that the voting instructions are provided. In addition, the Proxy Coordinator will ask the Compliance Department to review the question for any actual or apparent conflicts of interest as described below under "Conflicts of

2

Interest." The Compliance Department will provide a "Conflicts of Interest Report," applying the criteria set forth below under "Conflicts of Interest," to the Proxy Coordinator summarizing the results of its review. In the absence of a conflict of interest, the Proxy Coordinator will vote in accordance with the recommendation of the Director of Portfolio Management US.

If the matter presents a conflict of interest for Pioneer, then the Proxy Coordinator will refer the matter to the Proxy Voting Oversight Group for a decision. In general, when a conflict of interest is present, Pioneer will vote according to the recommendation of the Director of Portfolio Management US where such recommendation would go against Pioneer's interest or where the conflict is deemed to be immaterial. Pioneer will vote according to the recommendation of its proxy voting service when the conflict is deemed to be material and the Pioneer's internal vote recommendation would favor Pioneer's interest, unless a client specifically requests Pioneer to do otherwise. When making the final determination as to how to vote a proxy, the Proxy Voting Oversight Group will review the report from the Director of Portfolio Management US and the Conflicts of Interest Report issued by the Compliance Department.

Conflicts of Interest

A conflict of interest occurs when Pioneer's interests interfere, or appear to interfere with the interests of Pioneer's clients. Occasionally, Pioneer may have a conflict that can affect how its votes proxies. The conflict may be actual or perceived and may exist when the matter to be voted on concerns:

- o An affiliate of Pioneer, such as another company belonging to the UniCredito Italiano S.p.A. banking group (a "UniCredito Affiliate");
- o An issuer of a security for which Pioneer acts as a sponsor, advisor, manager, custodian, distributor, underwriter, broker, or other similar capacity (including those securities specifically declared by PGAM to present a conflict of interest for Pioneer);
- o An issuer of a security for which UniCredito has informed Pioneer that a UniCredito Affiliate acts as a sponsor, advisor, manager, custodian, distributor, underwriter, broker, or other similar capacity; or
- o A person with whom Pioneer (or any of its affiliates) has an existing, material contract or business relationship that was not entered into in the ordinary course of Pioneer's business.
- o Pioneer will abstain from voting with respect to companies

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

directly or indirectly owned by UniCredito Italiano Group, unless otherwise directed by a client. In addition, Pioneer will inform PGAM Global Compliance and the PGAM Independent Directors before exercising such rights.

Any associate involved in the proxy voting process with knowledge of any apparent or actual conflict of interest must disclose such conflict to the Proxy Coordinator and the Compliance Department. The Compliance Department will review each item referred to Pioneer to determine whether an actual or potential conflict of interest with Pioneer exists in connection with the proposal(s) to be voted upon. The review will be conducted by comparing the apparent parties affected by the proxy proposal being

3

voted upon against the Compliance Department's internal list of interested persons and, for any matches found, evaluating the anticipated magnitude and possible probability of any conflict of interest being present. For each referral item, the determination regarding the presence or absence of any actual or potential conflict of interest will be documented in a Conflicts of Interest Report to the Proxy Coordinator.

Securities Lending

In conjunction with industry standards Proxies are not available to be voted when the shares are out on loan through either Pioneer's lending program or a client's managed security lending program. However, Pioneer will reserve the right to recall lent securities so that they may be voted according to the Pioneer's instructions. If a portfolio manager would like to vote a block of previously lent shares, the Proxy Coordinator will work with the portfolio manager and Investment Operations to recall the security, to the extent possible, to facilitate the vote on the entire block of shares.

Share-Blocking

"Share-blocking" is a market practice whereby shares are sent to a custodian (which may be different than the account custodian) for record keeping and voting at the general meeting. The shares are unavailable for sale or delivery until the end of the blocking period (typically the day after general meeting date).

Pioneer will vote in those countries with "share-blocking." In the event a manager would like to sell a security with "share-blocking", the Proxy Coordinator will work with the Portfolio Manager and Investment Operations Department to recall the shares (as allowable within the market time-frame and practices) and/or communicate with executing brokerage firm. A list of countries with "share-blocking" is available from the Investment Operations Department upon request.

Record Keeping

The Proxy Coordinator shall ensure that Pioneer's proxy voting service:

- o Retains a copy of the proxy statement received (unless the proxy statement is available from the SEC's Electronic Data Gathering, Analysis, and Retrieval (EDGAR) system);
- o Retains a record of the vote cast;
- o Prepares Form N-PX for filing on behalf of each client that is a registered investment company; and

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- o Is able to promptly provide Pioneer with a copy of the voting record upon its request.

4

The Proxy Coordinator shall ensure that for those votes that may require additional documentation (i.e. conflicts of interest, exception votes and case-by-case votes) the following records are maintained:

- o A record memorializing the basis for each referral vote cast;
- o A copy of any document created by Pioneer that was material in making the decision on how to vote the subject proxy; and
- o A copy of any conflict notice, conflict consent or any other written communication (including emails or other electronic communications) to or from the client (or in the case of an employee benefit plan, the plan's trustee or other fiduciaries) regarding the subject proxy vote cast by, or the vote recommendation of, Pioneer.
- o Pioneer shall maintain the above records in the client's file for a period not less than ten (10) years.

Disclosure

Pioneer shall take reasonable measures to inform its clients of the process or procedures clients must follow to obtain information regarding how Pioneer voted with respect to assets held in their accounts. In addition, Pioneer shall describe to clients its proxy voting policies and procedures and will furnish a copy of its proxy voting policies and procedures upon request. This information may be provided to clients through Pioneer's Form ADV (Part II) disclosure, by separate notice to the client, or through Pioneer's website.

Proxy Voting Oversight Group

The members of the Proxy Voting Oversight Group are Pioneer's: Director of Portfolio Management US, Head of Investment Operations, and Director of Compliance. Other members of Pioneer will be invited to attend meetings and otherwise participate as necessary. The Head of Investment Operations will chair the Proxy Voting Oversight Group.

The Proxy Voting Oversight Group is responsible for developing, evaluating, and changing (when necessary) Pioneer's Proxy Voting Policies and Procedures. The group meets at least annually to evaluate and review these policies and procedures and the services of its third-party proxy voting service. In addition, the Proxy Voting Oversight Group will meet as necessary to vote on referral items and address other business as necessary.

Amendments

Pioneer may not amend its Proxy Voting Policies And Procedures without the prior approval of the Proxy Voting Oversight Group and its corporate parent, Pioneer Global Asset Management S.p.A

5

Proxy Voting Policies

Pioneer's sole concern in voting proxies is the economic effect of the proposal on the value of portfolio holdings, considering both the short- and long-term impact. In many instances, Pioneer believes that supporting

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

the company's strategy and voting "for" management's proposals builds portfolio value. In other cases, however, proposals set forth by management may have a negative effect on that value, while some shareholder proposals may hold the best prospects for enhancing it. Pioneer monitors developments in the proxy-voting arena and will revise this policy as needed.

All proxies that are received promptly will be voted in accordance with the specific policies listed below. All shares in a company held by Pioneer-managed accounts will be voted alike, unless a client has given us specific voting instructions on an issue or has not delegated authority to us. Proxy voting issues will be reviewed by Pioneer's Proxy Voting Oversight Group, which consists of the Director of Portfolio Management US, the Director of Investment Operations (the Proxy Coordinator), and the Director of Compliance.

Pioneer has established Proxy Voting Procedures for identifying and reviewing conflicts of interest that may arise in the voting of proxies.

Clients may request, at any time, a report on proxy votes for securities held in their portfolios and Pioneer is happy to discuss our proxy votes with company management. Pioneer retains a proxy voting service to provide research on proxy issues and to process proxy votes.

Administrative

While administrative items appear infrequently in U.S. issuer proxies, they are quite common in non-U.S. proxies.

We will generally support these and similar management proposals:

- o Corporate name change.
 - o A change of corporate headquarters.
 - o Stock exchange listing.
 - o Establishment of time and place of annual meeting.
 - o Adjournment or postponement of annual meeting.
 - o Acceptance/approval of financial statements.
 - o Approval of dividend payments, dividend reinvestment plans and other dividend-related proposals.
 - o Approval of minutes and other formalities.
- 6
- o Authorization of the transferring of reserves and allocation of income.
 - o Amendments to authorized signatories.
 - o Approval of accounting method changes or change in fiscal year-end.
 - o Acceptance of labor agreements.
 - o Appointment of internal auditors.

Pioneer will vote on a case-by-case basis on other routine business; however, Pioneer will oppose any routine business proposal if insufficient

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

information is presented in advance to allow Pioneer to judge the merit of the proposal. Pioneer has also instructed its proxy voting service to inform Pioneer of its analysis of any administrative items inconsistent, in its view, with supporting the value of Pioneer portfolio holdings so that Pioneer may consider and vote on those items on a case-by-case basis.

Auditors

We normally vote for proposals to:

- o Ratify the auditors. We will consider a vote against if we are concerned about the auditors' independence or their past work for the company. Specifically, we will oppose the ratification of auditors and withhold votes from audit committee members if non-audit fees paid by the company to the auditing firm exceed the sum of audit fees plus audit-related fees plus permissible tax fees according to the disclosure categories proposed by the Securities and Exchange Commission.
- o Restore shareholder rights to ratify the auditors.

We will normally oppose proposals that require companies to:

- o Seek bids from other auditors.
- o Rotate auditing firms, except where the rotation is statutorily required or where rotation would demonstrably strengthen financial disclosure.
- o Indemnify auditors.
- o Prohibit auditors from engaging in non-audit services for the company.

Board of Directors

On issues related to the board of directors, Pioneer normally supports management. We will, however, consider a vote against management in instances where corporate performance has been very poor or where the board appears to lack independence.

7

General Board Issues

Pioneer will vote for:

- o Audit, compensation and nominating committees composed of independent directors exclusively.
- o Indemnification for directors for actions taken in good faith in accordance with the business judgment rule. We will vote against proposals for broader indemnification.
- o Changes in board size that appear to have a legitimate business purpose and are not primarily for anti-takeover reasons.
- o Election of an honorary director.

We will vote against:

- o Minimum stock ownership by directors.
- o Term limits for directors. Companies benefit from experienced

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

directors, and shareholder control is better achieved through annual votes.

- o Requirements for union or special interest representation on the board.
- o Requirements to provide two candidates for each board seat.

We will vote on a case-by case basis on these issues:

- o Separate chairman and CEO positions. We will consider voting with shareholders on these issues in cases of poor corporate performance.

Elections of Directors

In uncontested elections of directors we will vote against:

- o Individual directors with absenteeism above 25% without valid reason. We support proposals that require disclosure of director attendance.
- o Insider directors and affiliated outsiders who sit on the audit, compensation, stock option or nominating committees. For the purposes of our policy, we accept the definition of affiliated directors provided by our proxy voting service.

We will also vote against:

- o Directors who have failed to act on a takeover offer where the majority of shareholders have tendered their shares.
- o Directors who appear to lack independence or are associated with very poor corporate performance.

8

We will vote on a case-by case basis on these issues:

- o Re-election of directors who have implemented or renewed a dead-hand or modified dead-hand poison pill (a "dead-hand poison pill" is a shareholder rights plan that may be altered only by incumbent or "dead " directors. These plans prevent a potential acquirer from disabling a poison pill by obtaining control of the board through a proxy vote).
- o Contested election of directors.
- o Prior to phase-in required by SEC, we would consider supporting election of a majority of independent directors in cases of poor performance.
- o Mandatory retirement policies.
- o Directors who have ignored a shareholder proposal that has been approved by shareholders for two consecutive years.

Takeover-Related Measures

Pioneer is generally opposed to proposals that may discourage takeover attempts. We believe that the potential for a takeover helps ensure that corporate performance remains high.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Pioneer will vote for:

- o Cumulative voting.
- o Increase ability for shareholders to call special meetings.
- o Increase ability for shareholders to act by written consent.
- o Restrictions on the ability to make greenmail payments.
- o Submitting rights plans to shareholder vote.
- o Rescinding shareholder rights plans ("poison pills").
- o Opting out of the following state takeover statutes:
 - o Control share acquisition statutes, which deny large holders voting rights on holdings over a specified threshold.
 - o Control share cash-out provisions, which require large holders to acquire shares from other holders.
 - o Freeze-out provisions, which impose a waiting period on large holders before they can attempt to gain control.
 - o Stakeholder laws, which permit directors to consider interests of non-shareholder constituencies.

9

- o Disgorgement provisions, which require acquirers to disgorge profits on purchases made before gaining control.
- o Fair price provisions.
- o Authorization of shareholder rights plans.
- o Labor protection provisions.
- o Mandatory classified boards.

We will vote on a case-by-case basis on the following issues:

- o Fair price provisions. We will vote against provisions requiring supermajority votes to approve takeovers. We will also consider voting against proposals that require a supermajority vote to repeal or amend the provision. Finally, we will consider the mechanism used to determine the fair price; we are generally opposed to complicated formulas or requirements to pay a premium.
- o Opting out of state takeover statutes regarding fair price provisions. We will use the criteria used for fair price provisions in general to determine our vote on this issue.
- o Proposals that allow shareholders to nominate directors.

We will vote against:

- o Classified boards, except in the case of closed-end mutual funds.
- o Limiting shareholder ability to remove or appoint directors. We

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

will support proposals to restore shareholder authority in this area. We will review on a case-by-case basis proposals that authorize the board to make interim appointments.

- o Classes of shares with unequal voting rights.
- o Supermajority vote requirements.
- o Severance packages ("golden" and "tin" parachutes). We will support proposals to put these packages to shareholder vote.
- o Reimbursement of dissident proxy solicitation expenses. While we ordinarily support measures that encourage takeover bids, we believe that management should have full control over corporate funds.
- o Extension of advance notice requirements for shareholder proposals.
- o Granting board authority normally retained by shareholders (e.g., amend charter, set board size).
- o Shareholder rights plans ("poison pills"). These plans generally allow shareholders to buy additional shares at a below-market price in the event of a change in control and may deter some bids.

10

Capital Structure

Managements need considerable flexibility in determining the company's financial structure, and Pioneer normally supports managements' proposals in this area. We will, however, reject proposals that impose high barriers to potential takeovers.

Pioneer will vote for:

- o Changes in par value.
- o Reverse splits, if accompanied by a reduction in number of shares.
- o Share repurchase programs, if all shareholders may participate on equal terms.
- o Bond issuance.
- o Increases in "ordinary" preferred stock.
- o Proposals to have blank-check common stock placements (other than shares issued in the normal course of business) submitted for shareholder approval.
- o Cancellation of company treasury shares.

We will vote on a case-by-case basis on the following issues:

- o Reverse splits not accompanied by a reduction in number of shares, considering the risk of delisting.
- o Increase in authorized common stock. We will make a determination considering, among other factors:
 - o Number of shares currently available for issuance;

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- o Size of requested increase (we would normally approve increases of up to 100% of current authorization);
- o Proposed use of the additional shares; and
- o Potential consequences of a failure to increase the number of shares outstanding (e.g., delisting or bankruptcy).
 - o Blank-check preferred. We will normally oppose issuance of a new class of blank-check preferred, but may approve an increase in a class already outstanding if the company has demonstrated that it uses this flexibility appropriately.
 - o Proposals to submit private placements to shareholder vote.
 - o Other financing plans.

We will vote against preemptive rights that we believe limit a company's financing flexibility.

11

Compensation

Pioneer supports compensation plans that link pay to shareholder returns and believes that management has the best understanding of the level of compensation needed to attract and retain qualified people. At the same time, stock-related compensation plans have a significant economic impact and a direct effect on the balance sheet. Therefore, while we do not want to micromanage a company's compensation programs, we will place limits on the potential dilution these plans may impose.

Pioneer will vote for:

- o 401(k) benefit plans.
- o Employee stock ownership plans (ESOPs), as long as shares allocated to ESOPs are less than 5% of outstanding shares. Larger blocks of stock in ESOPs can serve as a takeover defense. We will support proposals to submit ESOPs to shareholder vote.
- o Various issues related to the Omnibus Budget and Reconciliation Act of 1993 (OBRA), including:
 - o Amendments to performance plans to conform with OBRA;
 - o Caps on annual grants or amendments of administrative features;
 - o Adding performance goals; and
 - o Cash or cash-and-stock bonus plans.
 - o Establish a process to link pay, including stock-option grants, to performance, leaving specifics of implementation to the company.
 - o Require that option repricings be submitted to shareholders.
 - o Require the expensing of stock-option awards.
 - o Require reporting of executive retirement benefits (deferred compensation, split-dollar life insurance, SERPs, and pension

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

benefits).

- o Employee stock purchase plans where the purchase price is equal to at least 85% of the market price, where the offering period is no greater than 27 months and where potential dilution (as defined below) is no greater than 10%.

12

We will vote on a case-by-case basis on the following issues:

- o Executive and director stock-related compensation plans. We will consider the following factors when reviewing these plans:
- o The program must be of a reasonable size. We will approve plans where the combined employee and director plans together would generate less than 15% dilution. We will reject plans with 15% or more potential dilution.

$$\text{Dilution} = (A + B + C) / (A + B + C + D), \text{ where}$$

A = Shares reserved for plan/amendment,

B = Shares available under continuing plans,

C = Shares granted but unexercised and

D = Shares outstanding.

- o The plan must not:
 - o Explicitly permit unlimited option repricing authority or that have repriced in the past without shareholder approval.
 - o Be a self-replenishing "evergreen" plan, plans that grant discount options and tax offset payments.
- o We are generally in favor of proposals that increase participation beyond executives.
- o We generally support proposals asking companies to adopt rigorous vesting provisions for stock option plans such as those that vest incrementally over, at least, a three- or four-year period with a pro rata portion of the shares becoming exercisable on an annual basis following grant date.
- o We generally support proposals asking companies to disclose their window period policies for stock transactions. Window period policies ensure that employees do not exercise options based on insider information contemporaneous with quarterly earnings releases and other material corporate announcements.
- o We generally support proposals asking companies to adopt stock holding periods for their executives.
 - o All other employee stock purchase plans.
 - o All other compensation-related proposals, including deferred compensation plans, employment agreements, loan guarantee programs and retirement plans.

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- o All other proposals regarding stock compensation plans, including extending the life of a plan, changing vesting restrictions, repricing options, lengthening exercise periods or accelerating distribution of awards and pyramiding and cashless exercise programs.

13

We will vote against:

- o Pensions for non-employee directors. We believe these retirement plans reduce director objectivity.
- o Elimination of stock option plans.

We will vote on a case-by case basis on these issues:

- o Limits on executive and director pay.
- o Stock in lieu of cash compensation for directors.

Corporate Governance

Pioneer will vote for:

- o Confidential Voting.
- o Equal access provisions, which allow shareholders to contribute their opinion to proxy materials.
- o Proposals requiring directors to disclose their ownership of shares in the company.

We will vote on a case-by-case basis on the following issues:

- o Change in the state of incorporation. We will support reincorporations supported by valid business reasons. We will oppose those that appear to be solely for the purpose of strengthening takeover defenses.
- o Bundled proposals. We will evaluate the overall impact of the proposal.
- o Adopting or amending the charter, bylaws or articles of association.
- o Shareholder appraisal rights, which allow shareholders to demand judicial review of an acquisition price.

We will vote against:

- o Shareholder advisory committees. While management should solicit shareholder input, we prefer to leave the method of doing so to management's discretion.
- o Limitations on stock ownership or voting rights.
- o Reduction in share ownership disclosure guidelines.

14

Mergers and Restructurings

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Pioneer will vote on the following and similar issues on a case-by-case basis:

- o Mergers and acquisitions.
- o Corporate restructurings, including spin-offs, liquidations, asset sales, joint ventures, conversions to holding company and conversions to self-managed REIT structure.
- o Debt restructurings.
- o Conversion of securities.
- o Issuance of shares to facilitate a merger.
- o Private placements, warrants, convertible debentures.
- o Proposals requiring management to inform shareholders of merger opportunities.

We will normally vote against shareholder proposals requiring that the company be put up for sale.

Mutual Funds

Many of our portfolios may invest in shares of closed-end mutual funds or exchange-traded funds. The non-corporate structure of these investments raises several unique proxy voting issues.

Pioneer will vote for:

- o Establishment of new classes or series of shares.
- o Establishment of a master-feeder structure.

Pioneer will vote on a case-by-case on:

- o Changes in investment policy. We will normally support changes that do not affect the investment objective or overall risk level of the fund. We will examine more fundamental changes on a case-by-case basis.
- o Approval of new or amended advisory contracts.
- o Changes from closed-end to open-end format.
- o Authorization for, or increase in, preferred shares.
- o Disposition of assets, termination, liquidation, or mergers.
- o Classified boards of closed-end mutual funds, but will typically support such proposals.

15

Social Issues

Pioneer will abstain on stockholder proposals calling for greater disclosure of corporate activities with regard to social issues. "Social Issues" may generally be described as shareholder proposals for a company to:

- o Conduct studies regarding certain issues of public concern and

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

interest;

- o Study the feasibility of the company taking certain actions with regard to such issues; or
- o Take specific action, including ceasing certain behavior and adopting company standards and principles, in relation to issues of public concern and interest.

We believe these issues are important and should receive management attention.

Pioneer will vote against proposals calling for substantial changes in the company's business or activities. We will also normally vote against proposals with regard to contributions, believing that management should control the routine disbursement of funds.

16

Item 8. Portfolio Managers of Closed-End Management Investment Companies.

(a) If the registrant is a closed-end management investment company that is filing an annual report on this Form N-CSR, provide the following information:

(1) State the name, title, and length of service of the person or persons employed by or associated with the registrant or an investment adviser of the registrant who are primarily responsible for the day-to-day management of the registrants portfolio (Portfolio Manager). Also state each Portfolio Managers business experience during the past 5 years.

Additional Information About the Portfolio Managers

Other Accounts Managed by the Portfolio Managers. The table below indicates, for the portfolio manager of the fund, information about the accounts other than the fund over which the portfolio manager has day-to-day investment responsibility. All information on the number of accounts and total assets in the table is as of March 31, 2010. For purposes of the table, "Other Pooled Investment Vehicles" may include investment partnerships, undertakings for collective investments in transferable securities ("UCITS") and other non-U.S. investment funds and group trusts, and "Other Accounts" may include separate accounts for institutions or individuals, insurance company general or separate accounts, pension funds and other similar institutional accounts but generally do not include the portfolio manager's personal investment accounts or those which the manager may be deemed to own beneficially under the code of ethics. Certain funds and other accounts managed by the portfolio manager may have substantially similar investment strategies.

Name of Portfolio Manager	Type of Account	Number of Accounts Managed	Total Assets Managed	Number of Accounts Managed for which Advisory Fee is Performance-Base
Andrew Feltus	Other Registered Investment Companies	6	\$5,904,343,000	N/A

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

Other Pooled Investment Vehicles	4	\$1,599,932,000	N/A
Other Accounts	1	\$335,242,000	N/A

Potential Conflicts of Interest. When a portfolio manager is responsible for the management of more than one account, the potential arises for the portfolio manager to favor one account over another. The principal types of potential conflicts of interest that may arise are discussed below. For the reasons outlined below, Pioneer does not believe that any material conflicts are likely to arise out of a portfolio manager's responsibility for the management of the fund as well as one or more other accounts. Although Pioneer has adopted procedures that it believes are reasonably designed to detect and prevent violations of the federal securities laws and to mitigate the potential for conflicts of interest to affect its portfolio management decisions, there can be no assurance that all conflicts will be identified or that all procedures will be effective in mitigating the potential for such risks. Generally, the risks of such conflicts of interest are increased to the extent that a portfolio manager has a financial incentive to favor one account over another. Pioneer has structured its compensation arrangements in a manner that is intended to limit such potential for conflicts of interest. See "Compensation of Portfolio Managers" below.

- o A portfolio manager could favor one account over another in allocating new investment opportunities that have limited supply, such as initial public offerings and private placements. If, for example, an initial public offering that was expected to appreciate in value significantly shortly after the offering was allocated to a single account, that account may be expected to have better investment performance than other accounts that did not receive an allocation of the initial public offering. Generally, investments for which there is limited availability are allocated based upon a range of factors including available cash and consistency with the accounts' investment objectives and policies. This allocation methodology necessarily involves some subjective elements but is intended over time to treat each client in an equitable and fair manner. Generally, the investment opportunity is allocated among participating accounts on a pro rata basis. Although Pioneer believes that its practices are reasonably designed to treat each client in an equitable and fair manner, there may be instances where a fund may not participate, or may participate to a lesser degree than other clients, in the allocation of an investment opportunity.

- o A portfolio manager could favor one account over another in the order in which trades for the accounts are placed. If a portfolio manager determines to purchase a security for more than one account in an aggregate amount that may influence the market price of the security, accounts that purchased or sold the security first may receive a more favorable price than accounts that made subsequent transactions. The less liquid the market for the security or the greater the percentage that the proposed aggregate purchases or sales represent of average daily trading volume, the greater the potential for accounts that make subsequent purchases or sales to receive a less favorable price. When a portfolio manager intends to trade the same security on the same day for more than one account, the trades typically are "bunched," which means that the trades for the individual accounts are aggregated and

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

each account receives the same price. There are some types of accounts as to which bunching may not be possible for contractual reasons (such as directed brokerage arrangements). Circumstances may also arise where the trader believes that bunching the orders may not result in the best possible price. Where those accounts or circumstances are involved, Pioneer will place the order in a manner intended to result in as favorable a price as possible for such client.

- o A portfolio manager could favor an account if the portfolio manager's compensation is tied to the performance of that account to a greater degree than other accounts managed by the portfolio manager. If, for example, the portfolio manager receives a bonus based upon the performance of certain accounts relative to a benchmark while other accounts are disregarded for this purpose, the portfolio manager will have a financial incentive to seek to have the accounts that determine the portfolio manager's bonus achieve the best possible performance to the possible detriment of other accounts. Similarly, if Pioneer receives a performance-based advisory fee, the portfolio manager may favor that account, whether or not the performance of that account directly determines the portfolio manager's compensation.
- o A portfolio manager could favor an account if the portfolio manager has a beneficial interest in the account, in order to benefit a large client or to compensate a client that had poor returns. For example, if the portfolio manager held an interest in an investment partnership that was one of the accounts managed by the portfolio manager, the portfolio manager would have an economic incentive to favor the account in which the portfolio manager held an interest.
- o If the different accounts have materially and potentially conflicting investment objectives or strategies, a conflict of interest could arise. For example, if a portfolio manager purchases a security for one account and sells the same security for another account, such trading pattern may disadvantage either the account that is long or short. In making portfolio manager assignments, Pioneer seeks to avoid such potentially conflicting situations. However, where a portfolio manager is responsible for accounts with differing investment objectives and policies, it is possible that the portfolio manager will conclude that it is in the best interest of one account to sell a portfolio security while another account continues to hold or increase the holding in such security.

Compensation of Portfolio Managers. Pioneer has adopted a system of compensation for portfolio managers that seeks to align the financial interests of the portfolio managers with those of shareholders of the accounts (including Pioneer funds) the portfolio managers manage, as well as with the financial performance of Pioneer. The compensation program for all Pioneer portfolio managers includes a base salary (determined by the rank and tenure of the employee) and an annual bonus program, as well as customary benefits that are offered generally to all full-time employees. Base compensation is fixed and normally reevaluated on an annual basis. Pioneer seeks to set base compensation at market rates, taking into account the experience and responsibilities of the portfolio manager. The bonus plan is intended to provide a competitive level of annual bonus compensation that is tied to the portfolio manager achieving superior investment performance and align the interests of the investment professional with those of shareholders, as well as with the financial performance of Pioneer. Any bonus under the plan is completely discretionary, with a maximum annual bonus that may be in excess of base salary. The annual bonus is based upon a combination of the following factors:

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- o Quantitative Investment Performance. The quantitative investment performance calculation is based on pre-tax investment performance of all of the accounts managed by the portfolio manager (which includes the fund and any other accounts managed by the portfolio manager) over a one-year period (20% weighting) and four-year period (80% weighting), measured for periods ending on December 31. The accounts, which include the fund, are ranked against a group of mutual funds with similar investment objectives and investment focus (60%) and a broad-based securities market index measuring the performance of the same type of securities in which the accounts invest (40%), which, in the case of the fund, is the Bank of America Merrill Lynch High Yield Master II Index. As a result of these two benchmarks, the performance of the portfolio manager for compensation purposes is measured against the criteria that are relevant to the portfolio manager's competitive universe.
- o Qualitative Performance. The qualitative performance component with respect to all of the accounts managed by the portfolio manager includes objectives, such as effectiveness in the areas of teamwork, leadership, communications and marketing, that are mutually established and evaluated by each portfolio manager and management.
- o Pioneer Results and Business Line Results. Pioneer's financial performance, as well as the investment performance of its investment management group, affect a portfolio manager's actual bonus by a leverage factor of plus or minus (+/-) a predetermined percentage.

The quantitative and qualitative performance components comprise 80% and 20%, respectively, of the overall bonus calculation (on a pre-adjustment basis). A portion of the annual bonus is deferred for a specified period and may be invested in one or more Pioneer funds.

Certain portfolio managers may participate in other programs designed to reward and retain key contributors. Senior executives or other key employees may be granted performance units based on the stock price performance of UniCredit and the financial performance of Pioneer Global Asset Management S.p.A., which are affiliates of Pioneer. Portfolio managers also may participate in a deferred compensation program, whereby deferred amounts are invested in one or more Pioneer funds.

Share Ownership by Portfolio Manager. The following table indicates as of March 31, 2010 the value, within the indicated range, of shares beneficially owned by the portfolio manager of the fund.

Name of Portfolio Manager	Beneficial Ownership of the Fund*
Andrew Feltus	C

*Key to Dollar Ranges

- A. None
- B. \$1 - \$10,000
- C. \$10,001 - \$50,000
- D. \$50,001 - \$100,000

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

- E. \$100,001 - \$500,000
- F. \$500,001 - \$1,000,000
- G. Over \$1,000,000

Item 9. Purchases of Equity Securities by Closed-End Management Investment Company and Affiliated Purchasers.

(a) If the registrant is a closed-end management investment company, in the following tabular format, provide the information specified in paragraph (b) of this Item with respect to any purchase made by or on behalf of the registrant or any affiliated purchaser, as defined in Rule 10b-18(a)(3) under the Exchange Act (17 CFR 240.10b-18(a)(3)), of shares or other units of any class of the registrants equity securities that is registered by the registrant pursuant to Section 12 of the Exchange Act (15 U.S.C. 781). Instruction to paragraph (a). Disclose all purchases covered by this Item, including purchases that do not satisfy the conditions of the safe harbor of Rule 10b-18 under the Exchange Act (17 CFR 240.10b-18), made in the period covered by the report. Provide disclosures covering repurchases made on a monthly basis. For example, if the reporting period began on January 16 and ended on July 15, the chart would show repurchases for the months from January 16 through February 15, February 16 through March 15, March 16 through April 15, April 16 through May 15, May 16 through June 15, and June 16 through July 15.

During the period covered by this report, there were no purchases made by or on behalf of the registrant or any affiliated purchaser as defined in Rule 10b-18(a)(3) under the Securities Exchange Act of 1934 (the Exchange Act), of shares of the registrants equity securities that are registered by the registrant pursuant to Section 12 of the Exchange Act.

Item 10. Submission of Matters to a Vote of Security Holders.

Describe any material changes to the procedures by which shareholders may recommend nominees to the registrants board of directors, where those changes were implemented after the registrant last provided disclosure in response to the requirements of Item 7(d)(2)(ii)(G) of Schedule 14A (17 CFR 240.14a-101), or this Item.

There have been no material changes to the procedures by which the shareholders may recommend nominees to the registrants board of directors since the registrant last provided disclosure in response to the requirements of Item 7(d)(2)(ii)(G) of Schedule 14(A) in its definitive proxy statement, or this Item.

ITEM 11. CONTROLS AND PROCEDURES.

(a) Disclose the conclusions of the registrant's principal executive officer or officers and principal financial officer or officers, or persons performing similar functions, about the effectiveness of the registrant's disclosure controls and procedures (as defined in Rule 30a-2(c) under the Act (17 CFR 270.30a-2(c))) based on their evaluation of these controls and procedures as of a date within 90 days of the filing date of the report that includes the disclosure required by this paragraph.

The registrant's principal executive officer and principal financial officer have

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

concluded that the registrant's disclosure controls and procedures are effective based on their evaluation of these controls and procedures as of a date within 90 days of the filing date of this report.

(b) Disclose whether or not there were significant changes in the registrant's internal controls or in other factors that could significantly affect these controls subsequent to the date of their evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

There were no significant changes in the registrant's internal control over financial reporting that occurred during the second fiscal quarter of the period covered by this report that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

The registrant's principal executive officer and principal financial officer, however, voluntarily are reporting the following information:

In August of 2006 the registrant's investment adviser enhanced its internal procedures for reporting performance information required to be included in prospectuses. Those enhancements involved additional internal controls over the appropriateness of performance data generated for this purpose. Such enhancements were made following an internal review which identified prospectuses relating to certain classes of shares of a limited number of registrants where, inadvertently, performance information not reflecting the deduction of applicable sales charges was included. Those prospectuses were revised, and the revised prospectuses were distributed to shareholders.

ITEM 12. EXHIBITS.

File the exhibits listed below as part of this Form. Letter or number the exhibits in the sequence indicated.

(a) Any code of ethics, or amendment thereto, that is the subject of the disclosure required by Item 2, to the extent that the registrant intends to satisfy the Item 2 requirements through filing of an exhibit.

(b) A separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2 under the Act (17 CFR 270.30a-2).

Filed herewith.

SIGNATURES

Edgar Filing: PIONEER HIGH INCOME TRUST - Form N-CSR

[See General Instruction F]

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) Pioneer High Income Trust

By (Signature and Title)* /s/ John F. Cogan, Jr.
John F. Cogan, Jr, President

Date May 28, 2010

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)* /s/ John F. Cogan, Jr.
John F. Cogan, Jr., President

Date May 28, 2010

By (Signature and Title)* /s/ Mark Bradley
Mark Bradley, Treasurer

Date May 28, 2010

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