

John Hancock
Diversified Real Assets Fund

Quarterly portfolio holdings 6/30/2023

 Investment Management

Fund's investments

As of 6-30-23 (unaudited)

| | Shares | Value |
|--|-----------|------------------------|
| Common stocks 99.0% | | \$1,049,471,332 |
| (Cost \$876,779,245) | | |
| Communication services 1.7% | | 17,558,667 |
| Diversified telecommunication services 1.0% | | |
| Cellnex Telecom SA (A)(B) | 132,439 | 5,351,049 |
| JTOWER, Inc. (B)(C) | 30,900 | 1,485,653 |
| Nippon Telegraph & Telephone Corp. | 3,260,425 | 3,858,081 |
| Wireless telecommunication services 0.7% | | |
| KDDI Corp. | 116,900 | 3,610,237 |
| SK Telecom Company, Ltd. | 91,948 | 3,253,647 |
| Consumer discretionary 2.2% | | 22,931,435 |
| Hotels, restaurants and leisure 1.4% | | |
| Hyatt Hotels Corp., Class A | 42,971 | 4,923,617 |
| Mandarin Oriental International, Ltd. (B) | 540,333 | 892,957 |
| Minor International PCL | 1,308,200 | 1,266,779 |
| Oriental Land Company, Ltd. | 69,080 | 2,693,152 |
| Whitbread PLC | 37,016 | 1,593,416 |
| Wynn Resorts, Ltd. | 30,047 | 3,173,264 |
| Household durables 0.8% | | |
| Kaufman & Broad SA | 49,628 | 1,467,634 |
| Lennar Corp., A Shares | 12,880 | 1,613,993 |
| Sekisui House, Ltd. | 132,200 | 2,670,387 |
| Sumitomo Forestry Company, Ltd. | 28,100 | 682,534 |
| Taylor Wimpey PLC | 359,933 | 470,215 |
| The Berkeley Group Holdings PLC | 29,759 | 1,483,487 |
| Energy 29.4% | | 311,198,995 |
| Energy equipment and services 2.3% | | |
| Aker Solutions ASA | 166,086 | 601,438 |
| Baker Hughes Company | 57,067 | 1,803,888 |
| ChampionX Corp. | 60,557 | 1,879,689 |
| Enerflex, Ltd. (C) | 160,359 | 1,091,857 |
| Halliburton Company | 156,979 | 5,178,737 |
| Helmerich & Payne, Inc. | 26,847 | 951,726 |
| Noble Corp. PLC (B) | 21,037 | 869,038 |
| Patterson-UTI Energy, Inc. | 126,582 | 1,515,187 |
| Schlumberger, Ltd. | 172,208 | 8,458,857 |
| TechnipFMC PLC (B) | 108,117 | 1,796,905 |
| Oil, gas and consumable fuels 27.1% | | |
| Advantage Energy, Ltd. (B) | 203,738 | 1,330,314 |
| Aker BP ASA | 98,364 | 2,307,758 |
| ARC Resources, Ltd. | 157,665 | 2,102,993 |
| Arch Resources, Inc. (C) | 6,800 | 766,768 |
| BP PLC | 2,398,402 | 13,964,431 |
| Cameco Corp. | 238,710 | 7,476,186 |
| Canadian Natural Resources, Ltd. | 263,135 | 14,793,957 |
| Cenovus Energy, Inc. | 578,826 | 9,830,976 |
| Cheniere Energy, Inc. | 11,695 | 1,781,850 |
| Chevron Corp. | 120,586 | 18,974,207 |
| ConocoPhillips | 127,800 | 13,241,358 |
| Coterra Energy, Inc. | 196,795 | 4,978,914 |
| Denbury, Inc. (B) | 12,092 | 1,043,056 |
| Devon Energy Corp. | 118,386 | 5,722,779 |

| | Shares | Value |
|--|---------|-------------------|
| Energy (continued) | | |
| Oil, gas and consumable fuels (continued) | | |
| Diamondback Energy, Inc. | 33,300 | \$4,374,288 |
| Enbridge, Inc. (C) | 35,999 | 1,337,363 |
| Energy Fuels, Inc. (B)(C) | 64,855 | 402,911 |
| Enerplus Corp. | 186,513 | 2,703,189 |
| EOG Resources, Inc. | 84,412 | 9,660,109 |
| EQT Corp. | 168,654 | 6,936,739 |
| Equinor ASA | 228,576 | 6,655,875 |
| Exxon Mobil Corp. | 222,623 | 23,876,317 |
| Galp Energia SGPS SA | 255,881 | 2,990,205 |
| Hess Corp. | 38,283 | 5,204,574 |
| Imperial Oil, Ltd. | 66,424 | 3,398,542 |
| Kelt Exploration, Ltd. (B) | 312,164 | 1,317,227 |
| Keyera Corp. | 109,982 | 2,536,290 |
| Marathon Petroleum Corp. | 67,853 | 7,911,660 |
| MEG Energy Corp. (B) | 154,493 | 2,449,030 |
| Neste OYJ | 23,562 | 907,216 |
| NexGen Energy, Ltd. (B) | 524,539 | 2,474,707 |
| NuVista Energy, Ltd. (B) | 183,515 | 1,471,168 |
| Occidental Petroleum Corp. | 89,739 | 5,276,653 |
| PDC Energy, Inc. | 12,576 | 894,657 |
| Pembina Pipeline Corp. | 149,290 | 4,693,662 |
| Phillips 66 | 53,522 | 5,104,928 |
| Pioneer Natural Resources Company | 51,978 | 10,768,802 |
| Shell PLC | 747,473 | 22,298,425 |
| Suncor Energy, Inc. | 418,061 | 12,263,333 |
| Targa Resources Corp. | 48,091 | 3,659,725 |
| TC Energy Corp. | 93,194 | 3,766,452 |
| The Williams Companies, Inc. | 229,239 | 7,480,069 |
| Tidewater Midstream and Infrastructure, Ltd. (C) | 414,666 | 292,669 |
| Topaz Energy Corp. | 54,765 | 852,842 |
| TotalEnergies SE | 176,314 | 10,121,266 |
| Tourmaline Oil Corp. | 83,362 | 3,927,878 |
| Valero Energy Corp. | 74,043 | 8,685,244 |
| Woodside Energy Group, Ltd., ADR (C) | 88,060 | 2,042,111 |
| Financials 0.3% | | 3,577,090 |
| Financial services 0.3% | | |
| Berkshire Hathaway, Inc., Class B (B) | 10,490 | 3,577,090 |
| Health care 0.4% | | 4,603,488 |
| Health care providers and services 0.4% | | |
| HCA Healthcare, Inc. | 15,169 | 4,603,488 |
| Industrials 2.0% | | 20,746,063 |
| Commercial services and supplies 0.1% | | |
| Aker Carbon Capture ASA (B) | 122,567 | 160,870 |
| Park24 Company, Ltd. (B) | 48,700 | 661,942 |
| Construction and engineering 0.8% | | |
| Vinci SA | 39,662 | 4,608,553 |
| WillScot Mobile Mini Holdings Corp. (B) | 72,072 | 3,444,321 |
| Electrical equipment 0.4% | | |
| Plug Power, Inc. (B)(C) | 23,816 | 247,448 |
| SunPower Corp. (B)(C) | 52,992 | 519,322 |

| | Shares | Value |
|--|---------|--------------------|
| Industrials (continued) | | |
| Electrical equipment (continued) | | |
| Sunrun, Inc. (B)(C) | 62,086 | \$1,108,856 |
| Vestas Wind Systems A/S (B) | 90,911 | 2,417,081 |
| Ground transportation 0.4% | | |
| Canadian National Railway Company | 30,033 | 3,636,833 |
| Machinery 0.1% | | |
| Chart Industries, Inc. (B)(C) | 9,030 | 1,442,904 |
| Transportation infrastructure 0.2% | | |
| Shanghai International Airport Company, Ltd., Class A (B) | 398,700 | 2,497,933 |
| Information technology 1.2% | | 13,249,173 |
| Electronic equipment, instruments and components 0.1% | | |
| Advanced Energy Industries, Inc. | 10,104 | 1,126,091 |
| IT services 0.1% | | |
| NEXTDC, Ltd. (B) | 189,273 | 1,596,099 |
| Semiconductors and semiconductor equipment 1.0% | | |
| Analog Devices, Inc. | 8,646 | 1,684,327 |
| Enphase Energy, Inc. (B) | 9,110 | 1,525,743 |
| First Solar, Inc. (B) | 6,651 | 1,264,289 |
| ON Semiconductor Corp. (B) | 19,126 | 1,808,937 |
| Power Integrations, Inc. | 15,377 | 1,455,741 |
| SolarEdge Technologies, Inc. (B) | 6,715 | 1,806,671 |
| Wolfspeed, Inc. (B)(C) | 17,652 | 981,275 |
| Materials 19.9% | | 211,435,235 |
| Chemicals 0.6% | | |
| Air Liquide SA | 4,037 | 723,978 |
| Albemarle Corp. | 5,191 | 1,158,060 |
| Dow, Inc. | 10,860 | 578,404 |
| DuPont de Nemours, Inc. | 10,690 | 763,694 |
| LyondellBasell Industries NV, Class A | 8,250 | 757,598 |
| NanoXplore, Inc. (B)(C) | 174,300 | 426,293 |
| Nutrien, Ltd. | 21,135 | 1,247,759 |
| Nutrien, Ltd. (New York Stock Exchange) | 7,975 | 470,924 |
| Containers and packaging 0.1% | | |
| Smurfit Kappa Group PLC | 37,000 | 1,238,244 |
| Metals and mining 18.7% | | |
| Agnico Eagle Mines, Ltd. | 216,213 | 10,796,369 |
| Agnico Eagle Mines, Ltd. (New York Stock Exchange) (C) | 14,563 | 727,859 |
| Alcoa Corp. | 128,446 | 4,358,173 |
| Allkem, Ltd. (B) | 30,000 | 322,622 |
| Altius Minerals Corp. | 42,876 | 708,801 |
| Anglo American PLC | 54,797 | 1,560,266 |
| AngloGold Ashanti, Ltd., ADR | 35,564 | 750,045 |
| Antofagasta PLC | 3,782 | 70,332 |
| Artemis Gold, Inc. (B)(C) | 271,854 | 976,807 |
| Aya Gold & Silver, Inc. (B)(C) | 108,347 | 694,370 |
| B2Gold Corp. | 304,659 | 1,085,481 |
| Barrick Gold Corp. | 549,733 | 9,299,503 |
| BHP Group, Ltd., ADR (C) | 292,525 | 17,454,967 |
| Boliden AB | 33,398 | 967,813 |
| Bravo Mining Corp. (B)(C) | 75,000 | 227,024 |
| Calibre Mining Corp. (B) | 260,000 | 272,806 |

| | Shares | Value |
|--|-----------|------------|
| Materials (continued) | | |
| Metals and mining (continued) | | |
| Canada Nickel Company, Inc. (B) | 825,000 | \$778,449 |
| Capstone Copper Corp. (B) | 1,210,667 | 5,492,439 |
| Champion Iron, Ltd. (C) | 834,591 | 3,357,894 |
| Constellium SE (B) | 136,200 | 2,342,640 |
| Endeavour Mining PLC | 191,778 | 4,596,302 |
| ERO Copper Corp. (B) | 241,282 | 4,881,191 |
| Filo Corp. (B)(C) | 40,000 | 779,317 |
| First Quantum Minerals, Ltd. | 323,545 | 7,654,199 |
| Foran Mining Corp. (B)(C) | 200,000 | 531,421 |
| Franco-Nevada Corp. | 26,380 | 3,759,810 |
| Freeport-McMoRan, Inc. | 559,537 | 22,381,480 |
| Glencore PLC | 175,299 | 993,927 |
| Global Atomic Corp. (B) | 131,500 | 295,807 |
| Gold Fields, Ltd., ADR | 106,194 | 1,468,663 |
| Hudbay Minerals, Inc. (C) | 699,612 | 3,353,489 |
| IGO, Ltd. | 195,000 | 1,990,326 |
| Iluka Resources, Ltd. | 113,100 | 842,151 |
| Ivanhoe Electric, Inc. (B)(C) | 113,250 | 1,476,780 |
| Ivanhoe Mines, Ltd., Class A (B)(C) | 589,735 | 5,386,521 |
| K92 Mining, Inc. (B) | 221,520 | 961,495 |
| Karora Resources, Inc. (B)(C) | 790,845 | 2,417,756 |
| Kinross Gold Corp. | 736,844 | 3,515,270 |
| Lithium Americas Corp. (B)(C) | 44,400 | 898,557 |
| Lucara Diamond Corp. (B) | 460,070 | 159,753 |
| Lundin Gold, Inc. | 78,797 | 942,768 |
| Lundin Mining Corp. (C) | 418,069 | 3,275,755 |
| MAG Silver Corp. (B)(C) | 60,275 | 671,112 |
| Marathon Gold Corp. (B)(C) | 758,305 | 463,655 |
| Nevada Copper Corp. (B)(C) | 265,550 | 44,100 |
| Newcrest Mining, Ltd. | 24,643 | 439,593 |
| Newcrest Mining, Ltd. (Toronto Stock Exchange) | 5,513 | 98,171 |
| Newmont Corp. | 163,880 | 6,991,121 |
| Nickel 28 Capital Corp. (B) | 356,691 | 315,024 |
| Norsk Hydro ASA | 405,464 | 2,417,077 |
| Nouveau Monde Graphite, Inc. (B)(C) | 95,617 | 290,676 |
| Nucor Corp. | 5,056 | 829,083 |
| OceanaGold Corp. | 342,106 | 674,011 |
| Osisko Mining, Inc. (B)(C) | 323,734 | 786,883 |
| Pan American Silver Corp. | 158,066 | 2,302,830 |
| Pan American Silver Corp., CVR (B) | 83,300 | 42,491 |
| Piedmont Lithium, Inc. (B)(C) | 34,100 | 1,967,911 |
| Rio Tinto PLC, ADR (C) | 165,227 | 10,548,092 |
| Sandstorm Gold, Ltd. | 32,529 | 166,727 |
| Seabridge Gold, Inc. (B)(C) | 45,163 | 544,214 |
| Sierra Rutile Holdings, Ltd. (B) | 98,000 | 16,421 |
| Sigma Lithium Corp. (B)(C) | 38,400 | 1,544,406 |
| SilverCrest Metals, Inc. (B) | 168,940 | 989,601 |
| Skeena Resources, Ltd. (B)(C) | 343,000 | 1,654,478 |
| SolGold PLC (B)(C) | 2,709,000 | 552,127 |
| South32, Ltd. | 552,666 | 1,391,393 |
| Southern Copper Corp. | 5,286 | 379,218 |
| SSR Mining, Inc. | 119,741 | 1,698,383 |
| Steel Dynamics, Inc. | 4,814 | 524,389 |

| | Shares | Value |
|--|-----------|--------------------|
| Materials (continued) | | |
| Metals and mining (continued) | | |
| Stornoway Diamond Corp. (B)(D) | 3,062,000 | \$0 |
| Talon Metals Corp. (B) | 5,442,000 | 1,448,051 |
| Teck Resources, Ltd., Class B | 255,065 | 10,732,080 |
| Torex Gold Resources, Inc. (B) | 20,837 | 296,020 |
| Trilogy Metals, Inc. (B) | 777,952 | 434,561 |
| Triple Flag Precious Metals Corp. (C) | 141,306 | 1,947,197 |
| U.S. Steel Corp. | 7,081 | 177,096 |
| Vale SA, ADR | 87,952 | 1,180,316 |
| Warrior Met Coal, Inc. | 27,574 | 1,074,007 |
| Wesdome Gold Mines, Ltd. (B) | 151,889 | 791,118 |
| Wheaton Precious Metals Corp. | 164,801 | 7,126,967 |
| Paper and forest products 0.5% | | |
| Canfor Corp. (B) | 33,800 | 606,729 |
| Interfor Corp. (B) | 114,319 | 2,155,643 |
| West Fraser Timber Company, Ltd. | 34,337 | 2,949,911 |
| Real estate 35.9% | | 380,192,311 |
| Diversified REITs 1.4% | | |
| Empire State Realty Trust, Inc., Class A | 956,834 | 7,166,687 |
| Growthpoint Properties, Ltd. | 797,006 | 493,326 |
| Heiwa Real Estate REIT, Inc. | 2,478 | 2,514,159 |
| Land Securities Group PLC | 208,845 | 1,527,050 |
| Stockland | 1,193,805 | 3,209,294 |
| Health care REITs 3.2% | | |
| CareTrust REIT, Inc. | 392,487 | 7,794,792 |
| Ventas, Inc. | 177,421 | 8,386,691 |
| Welltower, Inc. | 214,298 | 17,334,565 |
| Hotel and resort REITs 0.8% | | |
| Japan Hotel REIT Investment Corp. | 3,389 | 1,728,853 |
| Ryman Hospitality Properties, Inc. | 71,350 | 6,629,842 |
| Industrial REITs 5.6% | | |
| EastGroup Properties, Inc. | 55,970 | 9,716,392 |
| Goodman Group | 178,685 | 2,402,040 |
| Mapletree Logistics Trust | 849,900 | 1,022,216 |
| Plymouth Industrial REIT, Inc. | 258,904 | 5,959,970 |
| Prologis Property Mexico SA de CV | 405,570 | 1,501,251 |
| Prologis, Inc. | 315,234 | 38,657,143 |
| Office REITs 0.6% | | |
| Corporate Office Properties Trust | 125,468 | 2,979,865 |
| Gecina SA | 29,089 | 3,103,179 |
| Real estate management and development 4.3% | | |
| Arealink Company, Ltd. | 89,900 | 1,549,804 |
| CapitaLand Investment, Ltd. | 1,028,600 | 2,527,213 |
| CBRE Group, Inc., Class A (B) | 36,761 | 2,966,980 |
| CK Asset Holdings, Ltd. | 521,865 | 2,899,879 |
| Colliers International Group, Inc. | 12,176 | 1,194,852 |
| Corp. Inmobiliaria Vesta SAB de CV | 241,600 | 784,208 |
| Corp. Inmobiliaria Vesta SAB de CV, ADR (B) | 140,912 | 4,540,185 |
| Daito Trust Construction Company, Ltd. | 25,400 | 2,573,164 |
| Emaar Properties PJSC | 894,585 | 1,572,435 |
| Hufvudstaden AB, A Shares | 40,436 | 480,473 |
| Mitsui Fudosan Company, Ltd. | 258,027 | 5,142,842 |

| | Shares | Value |
|---|-----------|-------------------|
| Real estate (continued) | | |
| Real estate management and development (continued) | | |
| Nomura Real Estate Holdings, Inc. | 120,200 | \$2,857,710 |
| PSP Swiss Property AG | 13,773 | 1,538,955 |
| Sagax AB, B Shares | 69,212 | 1,368,684 |
| Sino Land Company, Ltd. | 1,546,627 | 1,904,064 |
| Sun Hung Kai Properties, Ltd. | 252,500 | 3,190,239 |
| TAG Immobilien AG (B) | 225,034 | 2,128,051 |
| Tokyu Fudosan Holdings Corp. | 252,600 | 1,447,854 |
| VGP NV | 17,608 | 1,722,705 |
| Wharf Real Estate Investment Company, Ltd. | 620,000 | 3,110,763 |
| Residential REITs 6.5% | | |
| American Homes 4 Rent, Class A | 270,924 | 9,604,256 |
| Apartment Income REIT Corp. | 100,481 | 3,626,359 |
| AvalonBay Communities, Inc. | 82,410 | 15,597,741 |
| Boardwalk Real Estate Investment Trust | 63,546 | 2,983,148 |
| Comforia Residential REIT, Inc. | 1,331 | 3,187,096 |
| Independence Realty Trust, Inc. | 189,867 | 3,459,377 |
| Sun Communities, Inc. | 82,784 | 10,800,001 |
| The UNITE Group PLC | 81,243 | 899,960 |
| UDR, Inc. | 301,089 | 12,934,783 |
| Veris Residential, Inc. (B) | 377,133 | 6,052,985 |
| Retail REITs 5.2% | | |
| Agree Realty Corp. | 105,823 | 6,919,766 |
| Ascencio | 13,878 | 666,646 |
| Brixmor Property Group, Inc. | 496,567 | 10,924,474 |
| Frasers Centrepont Trust | 812,400 | 1,319,063 |
| Fukuoka REIT Corp. | 1,119 | 1,288,818 |
| Getty Realty Corp. | 204,814 | 6,926,809 |
| Klepierre SA | 86,777 | 2,155,908 |
| NewRiver REIT PLC | 1,424,550 | 1,615,148 |
| Phillips Edison & Company, Inc. | 171,057 | 5,829,623 |
| RioCan Real Estate Investment Trust | 68,329 | 994,439 |
| Shaftesbury Capital PLC | 1,338,502 | 1,957,182 |
| Simon Property Group, Inc. | 62,996 | 7,274,778 |
| Tanger Factory Outlet Centers, Inc. | 259,267 | 5,722,023 |
| Vicinity, Ltd. | 1,727,096 | 2,126,957 |
| Specialized REITs 8.3% | | |
| American Tower Corp. | 38,586 | 7,483,369 |
| CubeSmart | 137,248 | 6,129,496 |
| EPR Properties | 84,170 | 3,939,156 |
| Equinix, Inc. | 35,446 | 27,787,537 |
| Iron Mountain, Inc. | 95,743 | 5,440,117 |
| Keppel DC REIT | 1,499,700 | 2,401,686 |
| Life Storage, Inc. | 21,587 | 2,870,208 |
| National Storage REIT | 637,891 | 1,001,323 |
| Public Storage | 59,965 | 17,502,584 |
| Safestore Holdings PLC | 146,046 | 1,580,820 |
| VICI Properties, Inc. | 367,811 | 11,560,300 |
| Utilities 6.0% | | 63,978,875 |
| Electric utilities 2.7% | | |
| American Electric Power Company, Inc. | 37,866 | 3,188,317 |
| Constellation Energy Corp. | 19,525 | 1,787,514 |
| Duke Energy Corp. | 31,968 | 2,868,808 |

| | Shares | Value |
|--|-------------------|----------------------|
| Utilities (continued) | | |
| Electric utilities (continued) | | |
| Edison International | 50,323 | \$3,494,932 |
| EDP - Energias de Portugal SA | 190,526 | 931,230 |
| Enel SpA | 491,119 | 3,311,341 |
| Exelon Corp. | 84,615 | 3,447,215 |
| FirstEnergy Corp. | 75,905 | 2,951,186 |
| Iberdrola SA | 280,593 | 3,664,217 |
| NextEra Energy, Inc. | 37,602 | 2,790,068 |
| Gas utilities 0.5% | | |
| Atmos Energy Corp. | 29,070 | 3,382,004 |
| ENN Energy Holdings, Ltd. | 154,800 | 1,936,253 |
| Independent power and renewable electricity producers 1.3% | | |
| Brookfield Renewable Corp., Class A | 19,299 | 608,304 |
| Brookfield Renewable Partners LP | 64,013 | 1,887,743 |
| China Longyuan Power Group Corp., Ltd., H Shares | 2,715,081 | 2,804,339 |
| Orron Energy AB (B) | 85,636 | 90,201 |
| RWE AG | 91,605 | 3,991,818 |
| The AES Corp. | 162,653 | 3,371,797 |
| Vistra Corp. | 53,779 | 1,411,699 |
| Multi-utilities 1.2% | | |
| Engie SA | 264,125 | 4,398,463 |
| National Grid PLC | 276,338 | 3,663,799 |
| Public Service Enterprise Group, Inc. | 25,401 | 1,590,357 |
| Sempra Energy | 24,655 | 3,589,521 |
| Water utilities 0.3% | | |
| Cia de Saneamento Basico do Estado de Sao Paulo | 238,500 | 2,817,749 |
| Rights 0.0% | | \$213,534 |
| (Cost \$213,534) | | |
| Shell PLC (B)(E) | 742,727 | 213,534 |
| Warrants 0.1% | | \$609,510 |
| (Cost \$0) | | |
| Occidental Petroleum Corp. (Expiration Date: 8-3-27; Strike Price: \$22.00) (B) | 16,332 | 609,510 |
| | Yield* (%) | Maturity date |
| Short-term investments 4.0% | | Par value^ |
| (Cost \$42,430,175) | | Value |
| U.S. Government Agency 0.0% | | 220,000 |
| Federal Home Loan Bank Discount Note | 4.800 | 07-03-23 |
| | | 220,000 |
| | Yield (%) | Shares |
| Short-term funds 3.3% | | Value |
| John Hancock Collateral Trust (F) | 5.1773(G) | 3,503,872 |
| | | 35,020,496 |
| | Par value^ | Value |
| Repurchase agreement 0.7% | | 7,200,000 |
| Bank of America Corp. Tri-Party Repurchase Agreement dated 6-30-23 at 5.060% to be repurchased at \$2,401,012 on 7-3-23, collateralized by \$2,668,300 U.S. Treasury Notes, 2.375% due 3-31-29 (valued at \$2,448,072) | | 2,400,000 |
| | | 2,400,000 |
| Goldman Sachs Tri-Party Repurchase Agreement dated 6-30-23 at 5.050% to be repurchased at \$4,802,020 on 7-3-23, collateralized by \$1,644,312 Federal Home Loan Mortgage Corp., 2.500% - 3.500% due 8-1-30 to 10-1-49 (valued at \$1,519,108), \$87,033 Federal National Mortgage Association, 4.000% - 5.500% due 11-1-33 to 12-1-42 (valued at \$87,627) and \$3,537,387 Government National Mortgage Association, 3.000% - 4.000% due 1-15-38 to 7-20-52 (valued at \$3,289,266) | | 4,800,000 |
| | | 4,800,000 |

| | |
|--|------------------------|
| Total investments (Cost \$919,422,954) 103.1% | \$1,092,734,872 |
| Other assets and liabilities, net (3.1%) | (33,126,088) |
| Total net assets 100.0% | \$1,059,608,784 |

The percentage shown for each investment category is the total value of the category as a percentage of the net assets of the fund.

^All par values are denominated in U.S. dollars unless otherwise indicated.

Security Abbreviations and Legend

ADR American Depositary Receipt

CVR Contingent Value Right

(A) These securities are exempt from registration under Rule 144A of the Securities Act of 1933. Such securities may be resold, normally to qualified institutional buyers, in transactions exempt from registration.

(B) Non-income producing security.

(C) All or a portion of this security is on loan as of 6-30-23. The value of securities on loan amounted to \$35,603,205. In addition to the cash collateral invested in John Hancock Collateral Trust, if any, non-cash collateral of \$2,459,563 in the form of U.S. Treasuries was pledged to the fund.

(D) Security is valued using significant unobservable inputs and is classified as Level 3 in the fair value hierarchy.

(E) Strike price and/or expiration date not available.

(F) Investment is an affiliate of the fund, the advisor and/or subadvisor. This security represents the investment of cash collateral received for securities lending.

(G) The rate shown is the annualized seven-day yield as of 6-30-23.

* Yield represents either the annualized yield at the date of purchase, the stated coupon rate or, for floating rate securities, the rate at period end.

The fund had the following country composition as a percentage of net assets on 6-30-23:

| | |
|-----------------|---------------|
| United States | 55.4% |
| Canada | 19.0% |
| United Kingdom | 6.6% |
| Australia | 3.7% |
| Japan | 3.6% |
| France | 2.7% |
| Norway | 1.1% |
| Hong Kong | 1.1% |
| Other countries | 6.8% |
| TOTAL | 100.0% |

Notes to Fund's investments (unaudited)

Security valuation. Investments are stated at value as of the scheduled close of regular trading on the New York Stock Exchange (NYSE), normally at 4:00 P.M., Eastern Time. In case of emergency or other disruption resulting in the NYSE not opening for trading or the NYSE closing at a time other than the regularly scheduled close, the net asset value (NAV) may be determined as of the regularly scheduled close of the NYSE pursuant to the Advisor's Valuation Policies and Procedures.

In order to value the securities, the fund uses the following valuation techniques: Equity securities, including exchange-traded or closed-end funds, are typically valued at the last sale price or official closing price on the exchange or principal market where the security trades. In the event there were no sales during the day or closing prices are not available, the securities are valued using the last available bid price. Investments by the fund in open-end mutual funds, including John Hancock Collateral Trust (JHCT), are valued at their respective NAVs each business day. Debt obligations are typically valued based on evaluated prices provided by an independent pricing vendor. Independent pricing vendors utilize matrix pricing, which takes into account factors such as institutional-size trading in similar groups of securities, yield, quality, coupon rate, maturity, type of issue, trading characteristics and other market data, as well as broker supplied prices. Foreign securities and currencies are valued in U.S. dollars based on foreign currency exchange rates supplied by an independent pricing vendor.

In certain instances, the Pricing Committee of the Advisor may determine to value equity securities using prices obtained from another exchange or market if trading on the exchange or market on which prices are typically obtained did not open for trading as scheduled, or if trading closed earlier than scheduled, and trading occurred as normal on another exchange or market.

Other portfolio securities and assets, for which reliable market quotations are not readily available, are valued at fair value as determined in good faith by the Pricing Committee following procedures established by the Advisor and adopted by the Board of Trustees. The frequency with which these fair valuation procedures are used cannot be predicted and fair value of securities may differ significantly from the value that would have been used had a ready market for such securities existed. Trading in foreign securities may be completed before the scheduled daily close of trading on the NYSE. Significant events at the issuer or market level may affect the values of securities between the time when the valuation of the securities is generally determined and the close of the NYSE. If a significant event occurs, these securities may be fair valued, as determined in good faith by the Pricing Committee, following procedures established by the Advisor and adopted by the Board of Trustees. The Advisor uses fair value adjustment factors provided by an independent pricing vendor to value certain foreign securities in order to adjust for events that may occur between the close of foreign exchanges or markets and the close of the NYSE.

The fund uses a three tier hierarchy to prioritize the pricing assumptions, referred to as inputs, used in valuation techniques to measure fair value. Level 1 includes securities valued using quoted prices in active markets for identical securities, including registered investment companies. Level 2 includes securities valued using other significant observable inputs. Observable inputs may include quoted prices for similar securities, interest rates, prepayment speeds and credit risk. Prices for securities valued using these inputs are received from independent pricing vendors and brokers and are based on an evaluation of the inputs described. Level 3 includes securities valued using significant unobservable inputs when market prices are not readily available or reliable, including the Advisor's assumptions in determining the fair value of investments. Factors used in determining value may include market or issuer specific events or trends, changes in interest rates and credit quality. The inputs or methodology used for valuing securities are not necessarily an indication of the risks associated with investing in those securities. Changes in valuation techniques and related inputs may result in transfers into or out of an assigned level within the disclosure hierarchy.

The following is a summary of the values by input classification of the fund's investments as of June 30, 2023, by major security category or type:

| | Total value at 6-30-23 | Level 1 quoted price | Level 2 significant observable inputs | Level 3 significant unobservable inputs |
|--|------------------------------|----------------------------|--|--|
| Investments in securities: | | | | |
| Assets | | | | |
| Common stocks | | | | |
| Communication services | \$17,558,667 | — | \$17,558,667 | — |
| Consumer discretionary | 22,931,435 | \$9,710,874 | 13,220,561 | — |
| Energy | 311,198,995 | 251,352,381 | 59,846,614 | — |
| Financials | 3,577,090 | 3,577,090 | — | — |
| Health care | 4,603,488 | 4,603,488 | — | — |
| Industrials | 20,746,063 | 10,399,684 | 10,346,379 | — |
| Information technology | 13,249,173 | 11,653,074 | 1,596,099 | — |
| Materials | 211,435,235 | 198,461,092 | 12,974,143 | — |
| Real estate | 380,192,311 | 307,976,752 | 72,215,559 | — |
| Utilities | 63,978,875 | 39,187,214 | 24,791,661 | — |
| Rights | 213,534 | — | 213,534 | — |
| Warrants | 609,510 | 609,510 | — | — |
| Short-term investments | 42,440,496 | 35,020,496 | 7,420,000 | — |
| Total investments in securities | \$1,092,734,872 | \$872,551,655 | \$220,183,217 | — |

Level 3 includes securities valued at \$0. Refer to Fund's investments.

Investment in affiliated underlying funds. The fund may invest in affiliated underlying funds that are managed by the Advisor and its affiliates. Information regarding the fund's fiscal year to date purchases and sales of the affiliated underlying funds as well as income and capital gains earned by the fund, if any, is as follows:

| Affiliate | Ending share amount | Beginning value | Cost of purchases | Proceeds from shares sold | Realized gain (loss) | Change in unrealized appreciation (depreciation) | Dividends and distributions | | Ending value |
|-------------------------------|---------------------|-----------------|-------------------|---------------------------|----------------------|--|-------------------------------|-------------------------------------|--------------|
| | | | | | | | Income distributions received | Capital gain distributions received | |
| John Hancock Collateral Trust | 3,503,872 | \$49,272,079 | \$80,113,125 | \$(94,356,892) | \$1,463 | \$(9,279) | \$167,245 | — | \$35,020,496 |

For additional information on the fund's significant accounting policies and risks, please refer to the fund's most recent semiannual or annual shareholder report and prospectus.