

JOHN HANCOCK PREFERRED INCOME FUND II  
Form N-Q  
December 23, 2015

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

**FORM N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT  
INVESTMENT COMPANIES**

Investment Company Act file number 811- 21202

John Hancock Preferred Income Fund II  
(Exact name of registrant as specified in charter)

601 Congress Street, Boston, Massachusetts 02210  
(Address of principal executive offices) (Zip code)

Salvatore Schiavone, Treasurer

601 Congress Street

Boston, Massachusetts 02210

(Name and address of agent for service)

Registrant's telephone number, including area code: 617-663-4497

Date of fiscal year end: July 31

Date of reporting period: October 31, 2015

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ITEM 1. SCHEDULE OF INVESTMENTS

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John Hancock

Preferred Income Fund II

**Quarterly portfolio holdings 10/31/15**

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## Fund's investments Preferred Income Fund II

**As of 10-31-15 (unaudited)**

|   | Shares  | Value         |
|---|---------|---------------|
| Preferred securities (a)                            |         |               |
| 145.1% (96.0% of Total investments)                 |         | \$668,487,804 |
| (Cost \$638,615,620)                                |         |               |
| Consumer staples 3.2%                               |         | 14,560,000    |
| Food and staples retailing 3.2%                     |         |               |
| Ocean Spray Cranberries, Inc., Series A, 6.250% (S) | 160,000 | 14,560,000    |
| Energy 3.4%   |         | 15,779,200    |
| Oil, gas and consumable fuels 3.4%                  |         |               |
| Kinder Morgan, Inc., 9.750% (I)                     | 320,000 | 15,779,200    |
| Financials 84.8%                                    |         | 390,616,366   |
| Banks 37.7%   |         |               |
| Bank of America Corp., 6.500%                       | 180,000 | 4,737,600     |
| Bank of America Corp., 6.625%                       | 20,000  | 530,800       |
| Barclays Bank PLC, Series 3, 7.100%                 | 365,000 | 9,468,100     |
| Barclays Bank PLC, Series 5, 8.125% (Z)             | 340,000 | 8,935,200     |
| BB&T Corp., 5.200% (Z)                              | 330,000 | 8,203,800     |
| BB&T Corp., 5.625% (Z)                              | 450,000 | 11,592,000    |
|   | 55,000  | 1,397,000     |

|   |         |            |
|---|---------|------------|
| Citigroup<br>Capital<br>XIII<br>(7.875%<br>to<br>10-30-15,<br>then 3<br>month<br>LIBOR<br>+<br>6.370%) (Z)<br>Citigroup,<br>Inc., | 10,000  | 250,900    |
| 5.800%<br>Citigroup,<br>Inc.,   | 60,000  | 1,607,400  |
| 6.875% (Z)<br>Citigroup,<br>Inc.,   | 20,000  | 551,400    |
| 7.125%<br>Citigroup,<br>Inc.<br>(6.875%<br>to<br>11-15-23,<br>then 3<br>month<br>LIBOR<br>+<br>4.130%)<br>HSBC<br>USA,<br>Inc.,   | 212,253 | 5,845,446  |
| 6.500% (Z)<br>ING<br>Groep<br>NV,   | 770,000 | 20,266,400 |
| 7.050% (Z)<br>JPMorgan<br>Chase<br>& Co.,   | 60,000  | 1,485,000  |
| 5.450% (Z)<br>JPMorgan<br>Chase<br>& Co.,   | 77,661  | 1,917,450  |
| 5.500%<br>JPMorgan<br>Chase<br>& Co.,   | 276,500 | 6,998,215  |
| 6.100%  | 501,419 | 12,710,972 |

|  |         |            |
|--|---------|------------|
| JPMorgan Chase & Co., 6.125% (Z)   |         |            |
| JPMorgan Chase & Co., 6.300%   | 30,000  | 781,500    |
| RBS Capital Funding Trust V, 5.900% (Z)  | 398,000 | 9,810,700  |
| RBS Capital Funding Trust VII, 6.080%  | 145,000 | 3,610,500  |
| Royal Bank of Scotland Group PLC, Series L, 5.750%                                     | 465,000 | 11,480,850 |
| The PNC Financial Services Group, Inc., 5.375%   | 70,000  | 1,775,900  |
| The PNC Financial Services Group, Inc. (6.125% to 5-1-22, then 3 month LIBOR + 4.067%) | 145,000 | 4,038,250  |
| U.S. Bancorp (6.000% to 4-15-17,   | 200,000 | 5,360,000  |

|  |         |            |
|--|---------|------------|
| then 3<br>month<br>LIBOR<br>+<br>4.861% (Z)<br>U.S.<br>Bancorp<br>(6.500%<br>to<br>1-15-22,<br>then 3<br>month<br>LIBOR<br>+<br>4.468% (Z)<br>Wells<br>Fargo &<br>Company,<br>6.000% (Z)<br>Wells<br>Fargo &<br>Company,<br>8.000% (Z)<br>Capital markets 16.3%<br>Deutsche<br>Bank<br>Contingent<br>Capital<br>Trust II,<br>6.550%<br>Deutsche<br>Bank<br>Contingent<br>Capital<br>Trust<br>III,<br>7.600% (Z)<br>Merrill<br>Lynch<br>Preferred<br>Capital<br>Trust<br>III,<br>7.000% (Z)<br>Merrill<br>Lynch<br>Preferred<br>Capital<br>Trust<br>IV,<br>7.120% | 570,000 | 16,518,600 |
|  | 250,000 | 6,490,000  |
|  | 565,000 | 15,848,250 |
|  | 173,000 | 4,466,860  |
|  | 460,000 | 12,300,400 |
|  | 322,000 | 8,336,580  |
|  | 180,000 | 4,674,600  |

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|   |         |            |
|---|---------|------------|
| Merrill<br>Lynch<br>Preferred<br>Capital<br>Trust V,<br>7.280%                              | 250,000 | 6,517,500  |
| Morgan<br>Stanley,<br>6.625% (Z)  | 175,000 | 4,683,000  |
| Morgan<br>Stanley<br>(6.375%<br>to<br>10-15-24,<br>then 3<br>month<br>LIBOR<br>+<br>3.708%) | 70,000  | 1,813,000  |
| Morgan<br>Stanley<br>Capital<br>Trust<br>III,<br>6.250% (Z)                                 | 272,000 | 7,044,800  |
| Morgan<br>Stanley<br>Capital<br>Trust<br>IV,<br>6.250% (Z)                                  | 155,000 | 3,991,250  |
| Morgan<br>Stanley<br>Capital<br>Trust V,<br>5.750% (Z)                                      | 285,000 | 7,256,100  |
| State<br>Street<br>Corp.,<br>5.250% (Z)   | 45,000  | 1,151,100  |
| State<br>Street<br>Corp.,<br>6.000% (Z)   | 445,000 | 11,503,250 |

2SEE NOTES TO FUND'S INVESTMENTS

## Preferred Income Fund II

|   | Shares  | Value       |
|---|---------|-------------|
| Financials (continued)  |         |             |
| Capital markets (continued)   |         |             |
| The<br>Goldman<br>Sachs<br>Group,<br>Inc.,<br>5.950%                          | 40,000  | \$1,023,200 |
| The<br>Goldman<br>Sachs<br>Group,<br>Inc.,<br>6.125%                          | 20,000  | 499,600     |
| Consumer finance 6.9%   |         |             |
| Capital<br>One<br>Financial<br>Corp.,<br>6.200%                               | 234,250 | 6,055,363   |
| Capital<br>One<br>Financial<br>Corp.,<br>6.700%                               | 40,000  | 1,088,400   |
| HSBC<br>Finance<br>Corp.,<br>Depository<br>Shares,<br>Series B,<br>6.360% (Z) | 725,000 | 18,386,000  |
| Navient<br>Corp.,<br>6.000% (Z)   | 177,500 | 3,310,375   |
| SLM<br>Corp.,<br>Series A, 6.970%   | 64,000  | 2,790,400   |
| Insurance 10.1%   |         |             |
| Aegon<br>NV,<br>6.375% (Z)  | 430,000 | 11,008,000  |
| Aegon<br>NV,<br>6.500%  | 220,000 | 5,728,800   |
| Prudential<br>Financial,  | 160,000 | 4,156,800   |

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|   |            |            |
|---|------------|------------|
| Inc.,<br>5.750%<br>Prudential<br>PLC,   | 103,000    | 2,732,590  |
| 6.500% (Z)<br>The<br>Phoenix<br>Companies,<br>Inc.,<br>7.450%<br>W.R.<br>Berkley<br>Corp.,  | 216,500    | 4,648,255  |
| 5.625%<br>Real estate investment trusts 13.7%<br>Kimco<br>Realty<br>Corp.,  | 740,000    | 18,440,800 |
| 6.000% (Z)<br>Public<br>Storage,<br>5.200% (Z)<br>Public<br>Storage,<br>5.750% (Z)<br>Public<br>Storage,<br>6.350% (Z)<br>Public<br>Storage,<br>Depository<br>Shares,<br>Series Q, 6.500%<br>Senior<br>Housing<br>Properties<br>Trust,<br>5.625% (Z)<br>Ventas<br>Realty<br>LP, | 725,000    | 18,705,000 |
| 255,000   | 6,301,050  |            |
| 340,000   | 8,741,400  |            |
| 175,000   | 4,536,000  |            |
| 122,000   | 3,121,980  |            |
| 667,000   | 16,468,230 |            |
| 200,000   | 5,288,000  |            |
| Thrifts and mortgage finance 0.1%<br>Federal<br>National<br>Mortgage<br>Association,<br>Series S,<br>8.250% (I)<br>Industrials 2.1%<br>Machinery 2.1%   | 75,000     | 354,450    |
|   | 9,653,300  |            |

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|   |         |             |
|---|---------|-------------|
| Stanley<br>Black &<br>Decker,<br>Inc.,<br>5.750% (Z)                                  | 370,000 | 9,653,300   |
| Telecommunication<br>services 13.3%<br>Diversified telecommunication<br>services 6.1% |         | 61,332,944  |
| Qwest<br>Corp.,<br>6.125%   | 30,000  | 746,400     |
| Qwest<br>Corp.,<br>6.875%   | 65,000  | 1,677,000   |
| Qwest<br>Corp.,<br>7.000%   | 60,000  | 1,567,200   |
| Qwest<br>Corp.,<br>7.375% (Z)   | 567,500 | 14,647,175  |
| Qwest<br>Corp.,<br>7.500%   | 172,500 | 4,519,500   |
| Verizon<br>Communications,<br>Inc.,<br>5.900% (Z)                                     | 185,000 | 4,958,000   |
| Wireless telecommunication<br>services 7.2%   |         |             |
| Telephone<br>& Data<br>Systems,<br>Inc.,<br>6.625% (Z)                                | 161,300 | 4,093,794   |
| Telephone<br>& Data<br>Systems,<br>Inc.,<br>6.875%                                    | 85,000  | 2,172,600   |
| Telephone<br>& Data<br>Systems,<br>Inc.,<br>7.000%                                    | 283,000 | 7,244,800   |
| United<br>States<br>Cellular<br>Corp.,<br>6.950% (Z)                                  | 772,500 | 19,706,475  |
| Utilities 38.3%   |         | 176,545,994 |

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|   |       |         |            |
|---|-------|---------|------------|
| Electric utilities  | 29.8% |         |            |
| Baltimore Gas & Electric Company, Series 1995, 6.990% (Z) |       | 39,870  | 4,031,854  |
| Duke Energy Corp., 5.125%                                 |       | 720,000 | 18,201,600 |
| Entergy Arkansas, Inc., 5.750% (Z)                        |       | 66,400  | 1,676,600  |
| Entergy Arkansas, Inc., 6.450%                            |       | 100,000 | 2,545,000  |
| Entergy Louisiana LLC, 5.250%                             |       | 220,000 | 5,612,200  |

SEE NOTES TO FUND'S INVESTMENTS3

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## Preferred Income Fund II

|   | Shares  | Value       |
|---|---------|-------------|
| Utilities (continued)                         |         |             |
| Electric utilities (continued)                |         |             |
| Entergy Louisiana LLC, 5.875% (Z)             | 186,750 | \$4,730,378 |
| Entergy Louisiana LLC, 6.000% (Z)             | 186,438 | 4,743,169   |
| Entergy Mississippi, Inc., 6.000%             | 186,500 | 4,774,400   |
| Entergy Mississippi, Inc., 6.200%             | 103,294 | 2,651,557   |
| FPL Group Capital Trust I, 5.875% (Z)         | 255,000 | 6,576,450   |
| Gulf Power Company, 5.750% (Z)                | 146,000 | 3,765,340   |
| HECO Capital Trust III, 6.500% (Z)            | 187,750 | 4,808,278   |
| Interstate Power & Light Company, 5.100% (Z)  | 154,600 | 3,980,950   |
| NextEra Energy Capital Holdings, Inc., 5.125% | 80,000  | 1,956,000   |
| NextEra Energy Capital Holdings, Inc.,        | 665,000 | 17,183,600  |

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|  |           |            |
|--|-----------|------------|
| 5.700% (Z)<br>NSTAR<br>Electric<br>Company,  | 15,143    | 1,506,729  |
| 4.780%<br>PPL<br>Capital<br>Funding,<br>Inc.,  | 1,050,000 | 26,607,000 |
| 5.900% (Z)<br>SCE<br>Trust I,  | 105,000   | 2,694,300  |
| 5.625%<br>SCE<br>Trust II,   | 426,000   | 10,432,740 |
| 5.100% (Z)<br>SCE<br>Trust III<br>(5.750%<br>to<br>3-15-24,<br>then 3<br>month<br>LIBOR<br>+<br>2.990%)<br>The<br>Southern<br>Company, | 310,000   | 8,184,000  |
| 6.250%<br>Multi-utilities 8.5%<br>BGE<br>Capital<br>Trust II,  | 539,000   | 13,863,080 |
| 6.200% (Z)<br>DTE<br>Energy<br>Company,  | 415,420   | 10,202,715 |
| 5.250%<br>DTE<br>Energy<br>Company,  | 355,000   | 9,521,100  |
| 6.500%<br>Integrys<br>Holding,<br>Inc.<br>(6.000%<br>to<br>8-1-23,<br>then 3<br>month  | 225,372   | 5,739,954  |

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|   |          |               |              |
|---|----------|---------------|--------------|
| LIBOR   |          |               |              |
| +   |          |               |              |
| 3.220% (Z)  |          |               |              |
| Common stocks 1.5% (1.0% of Total investments)                    |          |               | \$7,101,000  |
| (Cost \$7,803,457)  |          |               |              |
| Energy 1.1%   |          |               | 5,246,000    |
| Oil, gas and consumable fuels 1.1%                                |          |               |              |
| Royal Dutch Shell   |          |               |              |
|   | 100,000  |               | 5,246,000    |
| PLC, ADR, Class A   |          |               |              |
| Utilities 0.4%  |          |               | 1,855,000    |
| Multi-utilities 0.4%  |          |               |              |
| CenterPoint Energy, Inc.  | 100,000  |               | 1,855,000    |
|   | Rate     | Maturity date | Par value^   |
|   | (%)      |               | Value        |
| Capital preferred securities (b) 1.3% (0.9% of Total investments) |          |               | \$6,147,870  |
| (Cost \$5,574,000)  |          |               |              |
| Utilities 1.3%  |          |               | 6,147,870    |
| Multi-utilities 1.3%  |          |               |              |
| Dominion Resources  |          |               |              |
| Capital 8.400   | 01-15-31 | 5,000,000     | 6,147,870    |
| Trust III (Z)   |          |               |              |
| Corporate bonds 2.6% (1.7% of Total investments)                  |          |               | \$11,782,250 |
| (Cost \$13,378,635)   |          |               |              |
| Energy 1.6%   |          |               | 7,332,250    |
| Oil, gas and consumable fuels 1.6%                                |          |               |              |
| Energy Transfer Partners LP (P)                                   |          |               |              |
|   | 3.318    | 11-01-66      | 10,550,000   |
|   |          |               | 7,332,250    |
| Utilities 1.0%  |          |               | 4,450,000    |
| Electric utilities 1.0%   |          |               |              |
| Southern California Edison Company                                | 6.250    | 02-01-22      | 4,000,000    |
|   |          |               | 4,450,000    |
| (6.250% to 2-1-22, then 3 month LIBOR                             |          |               |              |

+  
4.199% (Q) (Z)  
4SEE NOTES TO FUND'S INVESTMENTS

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## Preferred Income Fund II

|  | Par value | Value                  |
|--|-----------|------------------------|
| Short-term investments   |           |                        |
| 0.7% (0.4% of Total investments)<br>(Cost \$2,971,000)   |           | \$2,971,000            |
| Repurchase agreement 0.7%<br>Repurchase Agreement with State Street Corp. dated 10-30-15 at 0.000% to be repurchased at \$2,971,000 on 11-2-15, collateralized by \$3,030,000 Federal Home Loan Bank, 0.750% due 8-28-17 (valued at \$3,033,939, including interest) | 2,971,000 | 2,971,000              |
| <b>Total investments (Cost \$668,342,712) 151.2%</b>   |           | <b>\$696,489,924</b>   |
| <b>Other assets and liabilities, net (51.2%)</b>   |           | <b>(\$235,842,373)</b> |
| <b>Total net assets 100.0%</b>   |           | <b>\$460,647,551</b>   |

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.

**Key to Security**

**Abbreviations**

**and Legend**

- American  
ADR Depository  
Receipts  
London  
LIBOR Interbank  
Offered Rate  
Includes preferred  
stocks and  
hybrid  
securities with  
(a) characteristics  
of both equity  
and debt that  
pay dividends  
on a periodic  
basis.  
Includes  
hybrid  
securities with  
characteristics  
(b) of both equity  
and debt that  
trade with, and  
pay, interest  
income.  
Non-income  
(I) producing  
security.  
Variable rate  
obligation.  
The coupon  
(P) rate shown  
represents the  
rate at period  
end.  
(Q) Perpetual  
bonds have no  
stated maturity  
date. Date

shown as  
maturity date  
is next call  
date.

- (S) 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. All or a portion of this security is pledged as collateral
- (Z) pursuant to the Credit Facility Agreement. Total collateral value at 10-31-15 was \$387,404,839. At 10-31-15, the aggregate cost of investment securities for federal income tax purposes was \$668,474,770. Net unrealized appreciation aggregated \$28,015,154, of which \$34,189,962 related to appreciated investment

securities and  
\$6,174,808  
related to  
depreciated  
investment  
securities.

The fund had the following country composition as a percentage of net assets on 10-31-15:

|                |               |
|----------------|---------------|
| United States  | 89.2%         |
| Netherlands    | 6.1%          |
| United Kingdom | 4.7%          |
| <b>Total</b>   | <b>100.0%</b> |

SEE NOTES TO FUND'S INVESTMENTS5

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## Notes to Fund's investments (unaudited)

**Security valuation.** Investments are stated at value as of the close of regular trading on the New York Stock Exchange (NYSE), normally at 4:00 p.m., Eastern Time. In order to value the securities, the fund uses the following valuation techniques: Equity securities held by the fund are valued at the last sale price or official closing price on the exchange where the security was acquired or most likely will be sold. 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. Debt obligations are valued based on the evaluated prices provided by an independent pricing vendor or from broker-dealers. 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. Swaps are valued using evaluated prices obtained from an independent pricing vendor. Futures contracts are valued at settlement prices, which are the official closing prices published by the exchange on which they trade. Foreign securities and currencies are valued in U.S. dollars, based on foreign currency exchange rates supplied by an independent pricing vendor. Securities that trade only in the over-the-counter (OTC) market are valued using bid prices. 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 fund's Pricing Committee following procedures established 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.

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. 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 fund's own 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 October 31, 2015, by major security category or type:

|                                     | <b>Total<br/>value at<br/>10-31-15</b> | <b>Level 1<br/>quoted price</b> | <b>Level 2<br/>significant<br/>observable<br/>inputs</b> | <b>Level 3<br/>significant<br/>unobservable<br/>inputs</b> |
|-------------------------------------|--|---------------------------------|--|--|
| <b>Preferred securities</b>         |  |                                 |  |  |
| Consumer staples                    | <b>\$14,560,000</b>                    |                                 | \$14,560,000   |  |
| Energy                              | <b>15,779,200</b>                      | \$15,779,200                    |  |  |
| Financials                          | <b>390,616,366</b>                     | 390,616,366                     |  |  |
| Industrials                         | <b>9,653,300</b>                       | 9,653,300                       |  |  |
| Telecommunication services          | <b>61,332,944</b>                      | 56,374,944                      | 4,958,000  |  |
| Utilities                           | <b>176,545,994</b>                     | 166,774,186                     | 9,771,808  |  |
| <b>Common stocks</b>                | <b>7,101,000</b>                       | 7,101,000                       |  |  |
| <b>Capital preferred securities</b> | <b>6,147,870</b>                       |                                 | 6,147,870  |  |
| <b>Corporate bonds</b>              | <b>11,782,250</b>                      |                                 | 11,782,250   |  |
| <b>Short-term investments</b>       | <b>2,971,000</b>                       |                                 | 2,971,000  |  |

|  |                      |                      |                     |
|--|----------------------|----------------------|---------------------|
| <b>Total investments in securities</b> | <b>\$696,489,924</b> | <b>\$646,298,996</b> | <b>\$50,190,928</b> |
|--|----------------------|----------------------|---------------------|

**Other financial instruments:**

|                     |              |             |              |
|---------------------|--------------|-------------|--------------|
| Futures             | (\$90,504 )  | (\$90,504 ) |              |
| Interest rate swaps | (\$814,443 ) |             | (\$814,443 ) |

Securities with market value of approximately \$6,227,028 at the beginning of the year were transferred from Level 1 to Level 2 during the period since quoted prices in active markets for identical securities were no longer available and securities were valued using other significant observable inputs.

**Repurchase agreements.** The fund may enter into repurchase agreements. When the fund enters into a repurchase agreement, it receives collateral that is held in a segregated account by the fund's custodian. The collateral amount is marked-to-market and monitored on a daily basis to ensure that the collateral held is in an amount not less than the principal amount of the repurchase agreement plus any accrued interest. Collateral received by the fund for repurchase agreements is disclosed in the Fund's investments as part of the caption related to the repurchase agreement.

Repurchase agreements are typically governed by the terms and conditions of the Master Repurchase Agreement and/or Global Master Repurchase Agreement (collectively, MRA). Upon an event of default, the non-defaulting party may close out all transactions traded under the MRA and net amounts owed. Absent an event of default, assets and liabilities resulting from repurchase agreements are not offset. In the event of a default by the counterparty, realization of the collateral proceeds could be delayed, during which time the collateral value may decline or the counterparty may have insufficient assets to pay back claims resulting from close-out of the transactions.

**Derivative instruments.** The fund may invest in derivatives in order to meet its investment objectives. Derivatives include a variety of different instruments that may be traded in the OTC market, on a regulated exchange or through a clearing facility. The risks in using derivatives vary depending upon the structure of the instruments, including the use of leverage, optionality, the liquidity or lack of liquidity of the contract, the creditworthiness of the counterparty or clearing organization and the volatility of the position. Some derivatives involve risks that are potentially greater than the risks associated with investing directly in the referenced securities or other referenced underlying instrument. Specifically, the fund is exposed to the risk that the counterparty to an OTC derivatives contract will be unable or unwilling to make timely settlement payments or otherwise honor its obligations. OTC derivatives transactions typically can only be closed out with the other party to the transaction.

**Futures.** A futures contract is a contractual agreement to buy or sell a particular currency or financial instrument at a pre-determined price in the future. Risks related to the use of futures contracts include possible illiquidity of the futures markets and contract prices that can be highly volatile and imperfectly correlated to movements in the underlying financial instrument. Use of long futures contracts subjects the funds to the risk of loss up to the notional value of the futures contracts. Use of short futures contracts subjects the funds to unlimited risk of loss.

During the period ended October 31, 2015, the fund used futures contracts to manage against anticipated interest rate changes. The following table summarizes the contracts held at October 31, 2015.

| Open contracts                     | Number of contracts | Position | Expiration date | Notional basis | Notional value | Unrealized appreciation (depreciation) |
|------------------------------------|---------------------|----------|-----------------|----------------|----------------|--|
| 10-Year U.S. Treasury Note Futures | 520                 | Short    | Dec 2015        | (\$66,306,996) | (\$66,397,500) | (\$90,504 )                            |
|                                    |                     |          |                 |                |                | <b>(\$90,504 )</b>                     |

Notional basis refers to the contractual amount agreed upon at inception of open contracts; notional value represents the current value of the open contract.

**Interest rate swaps.** Interest rate swaps represent an agreement between the fund and a counterparty to exchange cash flows based on the difference between two interest rates applied to a notional amount. The payment flows are usually netted against each other, with the difference being paid by one party to the other. The fund settles accrued net interest receivable or payable under the swap contracts at specified, future intervals. Swap agreements are privately negotiated in the OTC market or may be executed on a registered commodities exchange (centrally cleared swaps). Swaps are marked-to-market daily and the change in value is recorded as unrealized appreciation/depreciation of swap contracts. A termination payment by the counterparty or the fund is recorded as realized gain or loss, as well as the net periodic payments received or paid by the fund. The value of the swap will typically impose collateral posting obligations on the party that is considered out-of-the-money on the swap.

During the period ended October 31, 2015, the fund used interest rate swaps to manage against anticipated interest rate changes.. The following table summarizes the interest rate swap contracts held as of October 31, 2015.

| Counterparty                    | Notional amount      | Payments made by fund | Payments received by fund | Termination date | Market value       |
|---------------------------------|----------------------|-----------------------|---------------------------|------------------|--------------------|
| Morgan Stanley Capital Services | \$56,000,000         | Fixed 1.4625%         | 3 Month LIBOR (a)         | Aug 2016         | (\$566,971)        |
| Morgan Stanley Capital Services | 56,000,000           | Fixed 0.8750%         | 3 Month LIBOR (a)         | Jul 2017         | (247,472 )         |
|                                 | <b>\$112,000,000</b> |                       |                           |                  | <b>(\$814,443)</b> |

(a) At 10-31-15, the 3-month LIBOR rate was 0.3341%

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

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More information

**How to contact us**

**Internet** www.jhinvestments.com

Computershare

**Mail** P.O. Box 30170

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Customer service representatives **800-852-0218**

**Phone** Portfolio commentary **800-344-7054**

24-hour automated information **800-843-0090**

TDD line **800-231-5469**

P11Q1 10/15

This report is for the information of the shareholders of John Hancock Preferred Income Fund II.

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ITEM 2. CONTROLS AND PROCEDURES.

(a) Based upon their evaluation of the registrant's disclosure controls and procedures as conducted within 90 days of the filing date of this Form N-Q, the registrant's principal executive officer and principal accounting officer have concluded that those disclosure controls and procedures provide reasonable assurance that the material information required to be disclosed by the registrant on this report is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms.

(b) There were no changes in the registrant's internal control over financial reporting that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

ITEM 3. EXHIBITS.

Separate certifications for the registrant's principal executive officer and principal accounting officer, as required by Rule 30a-2(a) under the Investment Company Act of 1940, are attached.

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SIGNATURES

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

John Hancock Preferred Income Fund II

By: /s/ Andrew Arnott  
Andrew Arnott  
President

Date: December 17, 2015

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: /s/ Andrew Arnott  
Andrew Arnott  
President

Date: December 17, 2015

By: /s/ Charles A. Rizzo  
Charles A. Rizzo  
Chief Financial Officer

Date: December 17, 2015

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