JOHN HANCOCK PREFERRED INCOME FUND II
Form N-Q
June 28, 2016

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:	April 30, 2016

ITEM 1. SCHEDULE OF INVESTMENTS

John Hancock

Preferred Income Fund II

Quarterly portfolio holdings 4/30/16

Fund's investmentsPreferred Income Fund II

As of 4-30-16 (unaudited)

	Shares	Value
Preferred securities (a) 142.4% (94.5% of Total investments)		$662,363,953
(Cost $626,995,953)		
Consumer staples 3.0%		13,855,008
Food and staples retailing 3.0%		
Ocean Spray Cranberries, Inc., Series A, 6.250% (S)	160,000	13,855,008
Energy 4.8%		22,124,160
Oil, gas and consumable fuels 4.8%		
Kinder Morgan, Inc., 9.750%	501,000	22,124,160
Financials 80.8%		376,101,125
Banks 38.5%		
Bank of America Corp., 6.500%	180,000	4,752,000
Bank of America Corp., 6.625%	20,000	534,400
Barclays Bank PLC, Series 3, 7.100%	365,000	9,460,800
Barclays Bank PLC, Series 5, 8.125%	340,000	8,969,200
BB&T Corp., 5.200% (Z)	330,000	8,332,500
	450,000	11,574,000

BB&T Corp., 5.625% (Z)		
Citigroup Capital XIII, 7.008% (P) (Z)	55,000	1,438,250
Citigroup, Inc., 5.800%	10,000	259,800
Citigroup, Inc., 6.875% (Z)	60,000	1,615,200
Citigroup, Inc. (6.875% to 11-15-23, then 3 month LIBOR + 4.130%)	242,253	6,683,760
Citigroup, Inc. (7.125% to 9-30-23, then 3 month LIBOR + 4.040%)	155,000	4,333,800
HSBC USA, Inc., 6.500% (Z)	50,000	1,301,500
ING Groep NV, 7.050%	770,000	20,266,400
JPMorgan Chase & Co., 5.450% (Z)	60,000	1,528,800
JPMorgan Chase	77,661	1,964,047

& Co., 5.500%		
JPMorgan Chase & Co., 6.100%	276,500	7,224,945
JPMorgan Chase & Co., 6.125% (Z)	501,419	13,092,050
JPMorgan Chase & Co., 6.300%	30,000	790,500
RBS Capital Funding Trust V, 5.900% (Z)	398,000	9,711,200
RBS Capital Funding Trust VII, 6.080%	145,000	3,559,750
Royal Bank of Scotland Group PLC, Series L, 5.750%	465,000	11,253,000
The PNC Financial Services Group, Inc., 5.375%	70,000	1,805,300
The PNC Financial Services Group, Inc. (6.125%	145,000	4,191,950

to 5-1-22, then 3 month LIBOR + 4.067%)		
U.S. Bancorp (6.000% to 4-15-17, then 3 month LIBOR + 4.861%) (Z)	200,000	5,282,000
U.S. Bancorp (6.500% to 1-15-22, then 3 month LIBOR + 4.468%) (Z)	570,000	16,849,200
Wells Fargo & Company, 6.000% (Z)	250,000	6,657,500
Wells Fargo & Company, 8.000% (Z)	565,000	15,916,050
Capital markets 11.9%		
Deutsche Bank Contingent Capital Trust II, 6.550%	173,000	4,307,700
Deutsche Bank Contingent	460,000	11,923,200

Capital Trust III, 7.600% (Z)		
Morgan Stanley, 6.625% (Z)	175,000	4,732,000
Morgan Stanley (6.375% to 10-15-24, then 3 month LIBOR + 3.708%)	70,000	1,856,400
Morgan Stanley Capital Trust III, 6.250% (Z)	272,000	7,004,000
Morgan Stanley Capital Trust IV, 6.250% (Z)	155,000	3,981,950
Morgan Stanley Capital Trust V, 5.750% (Z)	285,000	7,284,600
State Street Corp., 5.250% (Z)	45,000	1,179,900
State Street Corp., 6.000% (Z)	445,000	12,023,900
The Goldman Sachs Group, Inc., 5.950%	40,000	1,026,400

Preferred Income Fund II

	Shares	Value
Financials (continued)		
Consumer finance 7.1%		
Capital One Financial Corp., 6.200%	234,250	$6,186,543
Capital One Financial Corp., 6.700%	52,925	1,452,262
HSBC Finance Corp., Depositary Shares, Series B, 6.360% (Z)	725,000	18,806,500
Navient Corp., 6.000%	177,500	3,418,650
SLM Corp., Series A, 6.970%	64,000	3,024,000
Insurance 10.0%		
Aegon NV, 6.375% (Z)	430,000	11,059,600
Aegon NV, 6.500%	220,000	5,753,000
Prudential Financial, Inc., 5.750%	160,000	4,222,400
Prudential PLC, 6.500% (Z)	103,000	2,695,510
The Phoenix Companies, Inc., 7.450%	216,500	4,005,250
W.R. Berkley	740,000	18,825,600

Corp., 5.625% (Z)		
Real estate investment trusts 13.2%		
Digital Realty Trust, Inc., 7.375%	25,592	711,458
Kimco Realty Corp., 6.000% (Z)	725,000	18,937,000
Public Storage, 5.200% (Z)	255,000	6,630,000
Public Storage, 5.750% (Z)	340,000	8,945,400
Public Storage, 6.350% (Z)	175,000	4,490,500
Senior Housing Properties Trust, 5.625% (Z)	667,000	16,841,750
Ventas Realty LP, 5.450%	200,000	5,136,000
Thrifts and mortgage finance 0.1%		
Federal National Mortgage Association, Series S, 8.250% (I)	75,000	291,750
Industrials 2.1%		9,734,700
Machinery 2.1%		
Stanley Black & Decker, Inc., 5.750% (Z)	370,000	9,734,700
Telecommunication services 13.1%		61,124,434
Diversified telecommunication services 6.0%		
	30,000	734,700

Qwest Corp., 6.125%		
Qwest Corp., 6.875%	65,000	1,660,750
Qwest Corp., 7.000%	60,000	1,530,000
Qwest Corp., 7.375% (Z)	567,500	14,505,300
Qwest Corp., 7.500%	172,500	4,434,975
Verizon Communications, Inc., 5.900% (Z)	185,000	5,075,938
Wireless telecommunication services 7.1%		
Telephone & Data Systems, Inc., 6.625% (Z)	161,300	4,151,862
Telephone & Data Systems, Inc., 6.875%	85,000	2,169,200
Telephone & Data Systems, Inc., 7.000%	283,000	7,193,859
United States Cellular Corp., 6.950% (Z)	772,500	19,667,850
Utilities 38.6%		179,424,526
Electric utilities 30.0%		
Baltimore Gas & Electric Company,	39,870	4,111,394

Series 1995, 6.990% (Z)		
Duke Energy Corp., 5.125%	720,000	18,936,000
Entergy Arkansas, Inc., 5.750% (Z)	66,400	1,679,256
Entergy Arkansas, Inc., 6.450%	100,000	2,580,000
Entergy Louisiana LLC, 5.250%	220,000	5,561,600
Entergy Louisiana LLC, 5.875% (Z)	186,750	4,734,113

SEE NOTES TO FUND'S INVESTMENTS3

Preferred Income Fund II

	Shares	Value
Utilities (continued)		
Electric utilities (continued)		
Entergy Louisiana LLC, 6.000% (Z)	146,665	$3,744,357
Entergy Mississippi, Inc., 6.000%	186,500	4,748,290
Entergy Mississippi, Inc., 6.200%	103,294	2,678,413
FPL Group Capital Trust I, 5.875% (Z)	255,000	6,655,500
Gulf Power Company, 5.750%	146,000	3,690,880
HECO Capital Trust III, 6.500% (Z)	187,750	4,965,988
Interstate Power & Light Company, 5.100% (Z)	154,600	4,186,568
NextEra Energy Capital Holdings, Inc., 5.125%	80,000	2,036,000
NextEra Energy Capital Holdings, Inc., 5.700% (Z)	665,000	17,230,150

NSTAR Electric Company, 4.780%	15,143	1,510,514
PPL Capital Funding, Inc., 5.900% (Z)	1,050,000	28,003,500
SCE Trust I, 5.625%	105,000	2,686,950
SCE Trust II, 5.100% (Z)	426,000	10,756,500
SCE Trust III (5.750% to 3-15-24, then 3 month LIBOR + 2.990%)	20,000	544,000
The Southern Company, 6.250% (Z)	310,000	8,391,700
Multi-utilities 8.6%		
BGE Capital Trust II, 6.200% (Z)	539,000	14,014,000
DTE Energy Company, 5.250% (Z)	415,420	10,763,532
DTE Energy Company, 6.500%	355,000	9,265,500
Integrys Holding, Inc. (6.000% to	225,372	5,949,821

8-1-23, then 3 month LIBOR + 3.220%) (Z)				
Common stocks 3.7% (2.5% of Total investments)				$17,381,035
(Cost $15,867,909)				
Energy 3.2%				15,021,535
Oil, gas and consumable fuels 3.2%				
Royal Dutch Shell PLC, ADR, Class A (Z)			130,000	6,875,700
Spectra Energy Corp. (Z)			260,500	8,145,835
Utilities 0.5%				2,359,500
Multi-utilities 0.5%				
CenterPoint Energy, Inc. (Z)			110,000	2,359,500
	Rate (%)	Maturity date	Par value^	Value
Capital preferred securities (b) 1.3% (0.9% of Total investments)				$6,248,205
(Cost $5,574,000)				
Utilities 1.3%				6,248,205
Multi-utilities 1.3%				
Dominion Resources Capital Trust III	8.400	01-15-31	5,000,000	6,248,205
Corporate bonds 2.3% (1.5% of Total investments)				$10,612,500
(Cost $13,374,099)				
Energy 1.3%				6,224,500
Oil, gas and consumable fuels 1.3%				
Energy Transfer Partners LP (P)	3.633	11-01-66	10,550,000	6,224,500
Utilities 1.0%				4,388,000
Electric utilities 1.0%				
Southern California Edison	6.250	02-01-22	4,000,000	4,388,000

Company
(6.250%
to
2-1-22,
then
3
month
LIBOR
+
4.199%) (Q) (Z)

4SEE NOTES TO FUND'S INVESTMENTS

Preferred Income Fund II

	Yield* (%)	Maturity date	Par value^	Value
Short-term investments 1.0% (0.6% of Total investments) (Cost $4,480,976)				$4,480,976
U.S. Government Agency 1.0%				4,378,976
Federal Home Loan Bank Discount Note	0.200	05-02-16	4,379,000	4,378,976
Repurchase agreement 0.0%				102,000
Repurchase Agreement with State Street Corp. dated 4-29-16 at 0.030% to be repurchased at $102,000 on 5-2-16, collateralized by $105,000 U.S. Treasury Notes, 1.125% due 2-28-21 (valued at $104,081, including interest)			102,000	102,000
Total investments (Cost $666,292,937) 150.7%				**$701,086,669**
Other assets and liabilities, net (50.7%)				**($235,789,473)**
Total net assets 100.0%				**$465,297,196**

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

ADR	American Depositary Receipts
LIBOR	London Interbank Offered Rate
(a)	Includes preferred stocks and hybrid securities with characteristics of both equity and debt that pay dividends on a periodic basis.
(b)	Includes hybrid securities with characteristics of both equity and debt that trade with, and pay, interest income.
(I)	Non-income producing security.
(P)	Variable rate obligation. The coupon 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.

(Z) All or a portion of this security is pledged as collateral pursuant to the Credit Facility Agreement. Total collateral value at 4-30-16 was $385,426,104.

* 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.

At 4-30-16, the aggregate cost of investment securities for federal income tax purposes was $666,433,047. Net unrealized appreciation aggregated to $34,653,622, of which $42,529,912 related to appreciated investment securities and $7,876,290 related to depreciated investment securities.

The fund had the following country composition as a percentage of net assets on 4-30-16:

United States	83.6%
Netherlands	9.4%
United Kingdom	7.0%
TOTAL	**100.0%**

SEE NOTES TO FUND'S INVESTMENTS5

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 may be determined as of the regularly scheduled close of the NYSE pursuant to the fund's Valuation Policies and Procedures. The time at which shares and transactions are priced and until which orders are accepted may vary to the extent permitted by the Securities and Exchange Commission and applicable regulations. In order to value the securities, the fund uses the following valuation techniques: Equity securities held by the fund are typically valued at the last sale price or official closing price on the exchange or principal market 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.

In certain instances, the Pricing Committee 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 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 April 30, 2016, by major security category or type:

	Total value at 4-30-16	**Level 1 quoted price**	**Level 2 significant observable inputs**	**Level 3 significant unobservable inputs**
Preferred securities				
Consumer staples	**$13,855,008**		$13,855,008	

Energy	**22,124,160**	$22,124,160	
Financials	**376,101,125**	376,101,125	
Industrials	**9,734,700**	9,734,700	
Telecommunication services	**61,124,434**	56,048,496	5,075,938
Utilities	**179,424,526**	169,363,311	10,061,215
Common stocks	**17,381,035**	17,381,035	
Capital preferred securities	**6,248,205**		6,248,205
Corporate bonds	**10,612,500**		10,612,500
Short-term investments	**4,480,976**		4,480,976
Total investments in securities	**$701,086,669**	**$650,752,827**	**$50,333,842**
Other financial instruments:			
Futures	**$356,162**	$356,162	
Interest rate swaps	**(408,139)**		($408,139)

Securities with a 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 over-the-counter (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 April 30, 2016 the fund used futures contracts to manage against anticipated interest rate changes. The following table summarizes the contracts held at April 30, 2016.

Open contracts	Number of contracts	Position	Expiration date	Notional basis	Notional value	Unrealized appreciation (depreciation)
10-Year U.S. Treasury Note Futures	520	Short	Jun 2016	($67,988,662)	($67,632,500)	$356,162

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.

During the period ended April 30, 2016, 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 April 30, 2016.

Counterparty	USD notional amount	Payments made by fund	Payments received by fund	Maturity date	Market value
Morgan Stanley Capital Services	$56,000,000	Fixed 1.4625%	3 Month LIBOR[(a)]	Aug 2016	($233,593)
Morgan Stanley Capital Services	56,000,000	Fixed 0.875%	3 Month LIBOR[(a)]	Jul 2017	(174,545)
	$112,000,000				**($408,139)**

[(a)] At 4-30-16, the 3-month LIBOR rate was 0.63660%

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	
Mail	Computershare P.O. Box 30170 College Station, TX 77842-3170	
Phone	Customer service representatives	**800-852-0218**
	Portfolio commentary	**800-344-7054**
	24-hour automated information	**800-843-0090**
	TDD line	**800-231-5469**

This report is for the information of the shareholders of John Hancock Preferred Income Fund II. P11Q3 04/16 6/16

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.

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

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Andrew Arnott

President

Date: June 17, 2016

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: June 17, 2016

By:

/s/ Charles A. Rizzo

Charles A. Rizzo

Chief Financial Officer

Date: June 17, 2016