

The PNC Financial Services Group, Inc.

Annual Report of Bank Holding Companies - FR Y-6

as of December 31, 2015

Board of Governors of the Federal Reserve System



Annual Report of Holding Companies—FR Y-6

Report at the close of business as of the end of fiscal year

This Report is required by law: Section 5(c)(1)(A) of the Bank Holding Company Act (12 U.S.C. § 1844 (c)(1)(A)); Section 8(a) of the International Banking Act (12 U.S.C. § 3106(a)); Sections 11(a)(1), 25 and 25A of the Federal Reserve Act (12 U.S.C. §§ 248(a)(1), 602, and 611a); Section 211.13(c) of Regulation K (12 C.F.R. § 211.13(c)); and Section 225.5(b) of Regulation Y (12 C.F.R. § 225.5(b)) and section 10(c)(2)(H) of the Home Owners' Loan Act. Return to the appropriate Federal Reserve Bank the original and the number of copies specified.

This report form is to be filed by all top-tier bank holding companies and top-tier savings and loan holding companies organized under U.S. law, and by any foreign banking organization that does not meet the requirements of and is not treated as a qualifying foreign banking organization under Section 211.23 of Regulation K (12 C.F.R. § 211.23). (See page one of the general instructions for more detail of who must file.) The Federal Reserve may not conduct or sponsor, and an organization (or a person) is not required to respond to, an information collection unless it displays a currently valid OMB control number.

NOTE: The *Annual Report of Holding Companies* must be signed by one director of the top-tier holding company. This individual should also be a senior official of the top-tier holding company. In the event that the top-tier holding company does not have an individual who is a senior official and is also a director, the chairman of the board must sign the report.

I, William S. Demchak

Name of the Holding Company Director and Official

Director, Chairman, President and CEO

Title of the Holding Company Director and Official

attest that the *Annual Report of Holding Companies* (including the supporting attachments) for this report date has been prepared in conformance with the instructions issued by the Federal Reserve System and are true and correct to the best of my knowledge and belief.

With respect to information regarding individuals contained in this report, the Reporter certifies that it has the authority to provide this information to the Federal Reserve. The Reporter also certifies that it has the authority, on behalf of each individual, to consent or object to public release of information regarding that individual. The Federal Reserve may assume, in the absence of a request for confidential treatment submitted in accordance with the Board's "Rules Regarding Availability of Information," 12 C.F.R. Part 261, that the Reporter and individual consent to public release of all details in the report concerning that individual.

William S. Demchak
Signature of Holding Company Director and Official

3/15/16
Date of Signature

For holding companies not registered with the SEC—
Indicate status of Annual Report to Shareholders:

- ☐ is included with the FR Y-6 report
☐ will be sent under separate cover
☐ is not prepared

For Federal Reserve Bank Use Only

RSSD ID
C.I.

1069778

Date of Report (top-tier holding company's fiscal year-end):

December 31, 2015

Month / Day / Year

CFGNEKW0P8842LEUIA51

Reporter's Legal Entity Identifier (LEI) (20-Character LEI Code)

Reporter's Name, Street, and Mailing Address
PNC Financial Services Group, Inc.

Legal Title of Holding Company

300 Fifth Avenue

(Mailing Address of the Holding Company) Street / P.O. Box

Pittsburgh

PA

15222

City

State

Zip Code

Physical Location (if different from mailing address)

Person to whom questions about this report should be directed:

Debbie Hilzendeger

Vice President

Name

Title

412-762-6369

Area Code / Phone Number / Extension

412-705-1501

Area Code / FAX Number

debbie.hilzendeger@pnc.com

E-mail Address

http://www.pnc.com

Address (URL) for the Holding Company's web page

Does the reporter request confidential treatment for any portion of this submission?

☒ Yes Please identify the report items to which this request applies:
Report item 4: insiders item (4)(c)

☒ In accordance with the instructions on pages GEN-2 and 3, a letter justifying the request is being provided.

☒ The information for which confidential treatment is sought is being submitted separately labeled "Confidential."

☐ No

For Use By Tiered Holding Companies

Top-tiered holding companies must list the names, mailing address, and physical locations of each of their subsidiary holding companies below.

PNC Bancorp, Inc.

Legal Title of Subsidiary Holding Company

300 Delaware Avenue

(Mailing Address of the Subsidiary Holding Company) Street / P.O. Box

Wilmington DE 19899

City State Zip Code

Physical Location (if different from mailing address)

Legal Title of Subsidiary Holding Company

(Mailing Address of the Subsidiary Holding Company) Street / P.O. Box

City State Zip Code

Physical Location (if different from mailing address)

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Physical Location (if different from mailing address)

FR Y-6 REPORT APPENDIX NUMBERS

Report Item 1	Annual Report to Shareholders
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Note: PNC is registered with the SEC, thus an Annual Report to Shareholders is not required.

Report Item 2a	Organization Chart	Appendix I
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Report Item 2b	Domestic Branch Listing
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Note: PNC has submitted this portion electronically as required by the Federal Reserve instructions.

Report Item 3	Securities Holders	Appendix II
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Report Item 4 - numbers 1 through 4b	Insiders	Appendix III
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Report Item 4 - number 4c only	Insiders - Confidential Information	Appendix IV
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APPENDIX I

The PNC Financial Services Group, Inc.
Organization Chart - Company and Location
December 31, 2015

Entity	City	State/ Country	Incorporated	%	Remarks	Tax ID #	LEI (if applicable)
The PNC Financial Services Group, Inc.	Pittsburgh	PA	PA			25-1435979	CFGNEKW0P8842LEUIA51
Kratky Road, Inc.	St Louis	MO	MO	100.00		45-2536757	
PNC Bancorp. Inc.	Wilmington	DE	DE	100.00		51-0326854	
BlackRock, Inc.	New York	NY	DE	21.10		32-0174431	
(see attached listing of BlackRock subsidiaries - 8 pages)							
PNC Bank, National Association	Wilmington	DE	USA	100.00	see footnote A	22-1146430	AD6GFRVSDT01YPT1CS68
CB Services Corp. (Virginia)	Norfolk	VA	VA	100.00		54-1904789	
Harris Williams LLC	Richmond	VA	VA	100.00		20-4031889	
Harris Williams UK Holdings LLC	Richmond	VA	VA	100.00		N/A	
Harris Williams & Co Ltd	London	England	England	100.00		N/A	
LIHTC Investments, LLC	Pittsburgh	PA	DE	100.00		20-0343559	
National City Community Development, LLC	Cleveland	OH	OH	100.00		N/A	
National City Mortgage Capital, LLC	Miamisburg	OH	DE	100.00		N/A	
NationalLink L.P.	Aliquippa	PA	PA	49.50		33-1098668	
NationalLink of Alabama, L.L.C.	Aliquippa	PA	AL	100.00		N/A	
NationalLink LLC	Aliquippa	PA	PA	50.20		33-1098667	
NationalLink L.P.	Aliquippa	PA	PA	1.00		33-1098668	
NationalLink of Alabama, L.L.C.	Aliquippa	PA	AL	100.00		N/A	
PNC Affordable Housing, Inc.	Wilmington	DE	DE	100.00		25-1814829	
Arcand GP, Inc.	Portland	OR	OR	100.00		93-1207706	
CHA Corporate Fund V, Inc.	Portland	OR	OR	100.00		93-1209363	
CHA Corporate Fund VI, Inc.	Portland	OR	OR	100.00		91-1758174	
CHA Proprietary Fund I GP, Inc.	Portland	OR	OR	100.00		93-1271247	
CHTC I, Inc.	Portland	OR	OR	100.00		93-1230573	
Columbia GP Holding, Inc.	Portland	OR	OR	100.00		93-1207705	
Hawthorne Villa GP, Inc.	Portland	OR	OR	100.00		93-1207707	
Columbia Housing/PNC Fund H-M, Inc.	Portland	OR	OR	100.00		93-1324196	
Columbia Housing/PNC Fund I, Inc.	Portland	OR	OR	100.00		93-1253905	
Columbia Housing/PNC Fund II, Inc.	Portland	OR	OR	100.00		04-3438886	
Columbia Housing/PNC Fund III, Inc.	Portland	OR	OR	100.00		93-1272882	
Columbia Housing/PNC Fund IV, Inc.	Portland	OR	OR	100.00		93-1281939	
Columbia Housing/PNC Fund V, Inc.	Portland	OR	OR	100.00		93-1274836	
Columbia Housing/PNC Fund VI, Inc.	Portland	OR	OR	100.00		93-1281940	
Columbia Housing/PNC Fund VII, Inc.	Portland	OR	OR	100.00		93-1292638	
Columbia Housing/PNC Fund VIII, Inc.	Portland	OR	OR	100.00		93-1292639	
Columbia Housing/PNC Fund IX, Inc.	Portland	OR	OR	100.00		93-6340694	
Columbia Housing/PNC Fund X, Inc.	Portland	OR	OR	100.00		93-1302750	
Columbia Housing/PNC Fund XI, Inc.	Portland	OR	OR	100.00		93-1306890	
Columbia Housing/PNC Fund XII, Inc.	Portland	OR	OR	100.00		93-1314319	
Columbia Housing/PNC Fund XIII, Inc.	Portland	OR	OR	100.00		48-1253865	
Columbia Housing/PNC Fund XIV, Inc.	Portland	OR	OR	100.00		93-1314320	
Columbia Housing/PNC Fund XV, Inc.	Portland	OR	OR	100.00		93-1331063	
Columbia Housing/PNC Fund XVI, Inc.	Portland	OR	OR	100.00		73-1644158	
Columbia Housing/PNC Fund XVII, Inc.	Portland	OR	OR	100.00		93-1331623	
Columbia Housing/PNC Fund XVIII, Inc.	Portland	OR	OR	100.00		46-0467916	
Columbia Housing/PNC Fund XIX, Inc.	Portland	OR	OR	100.00		75-3095379	
Columbia Housing/PNC Fund XX, Inc.	Portland	OR	OR	100.00		75-3078219	
PNC MultiFamily Capital Fund XL, Inc.	Portland	OR	DE	100.00		26-2030735	
PNC MultiFamily Capital Fund XLI, Inc.	Portland	OR	DE	100.00		26-3276723	
PNC MultiFamily Capital Fund XXI, Inc.	Portland	OR	OR	100.00		20-0201043	
PNC MultiFamily Capital Fund XXII, Inc.	Portland	OR	OR	100.00		20-0201168	
PNC MultiFamily Capital Fund XXIII, Inc.	Portland	OR	OR	100.00		20-0716147	
PNC MultiFamily Capital Fund XXV, Inc.	Portland	OR	OR	100.00		20-1108651	
PNC MultiFamily Capital Fund XXVI, Inc.	Portland	OR	OR	100.00		20-1108662	
PNC MultiFamily Capital Fund XXVII, Inc.	Portland	OR	OR	100.00		20-1108669	
PNC MultiFamily Capital Fund XXVIII, Inc.	Portland	OR	DE	100.00		20-1409422	
PNC MultiFamily Capital Fund XXIX, Inc.	Portland	OR	DE	100.00		20-2399476	
PNC MultiFamily Capital Fund XXX, Inc.	Portland	OR	DE	100.00		20-3462813	
PNC MultiFamily Capital Fund XXXI, Inc.	Portland	OR	DE	100.00		20-3906383	
PNC MultiFamily Capital Fund XXXIII, Inc.	Portland	OR	DE	100.00		20-4490990	
PNC MultiFamily Capital Fund XXXIV, Inc.	Portland	OR	DE	100.00		20-5205636	
PNC MultiFamily Capital Fund XXXV, Inc.	Portland	OR	DE	100.00		20-3911463	
PNC MultiFamily Capital Fund XXXVI, Inc.	Portland	OR	DE	100.00		26-0691046	
PNC MultiFamily Capital Fund XXXVIII, Inc.	Portland	OR	DE	100.00		26-1729681	
PNC MultiFamily Capital Fund XXXIX, Inc.	Portland	OR	DE	100.00		26-2030611	
PNC MultiFamily Capital STC I, Inc.	Portland	OR	OR	100.00		20-0907009	
PNC Real Estate Tax Credit Capital Fund 45, Inc.	Portland	OR	DE	100.00		27-2512569	
PNC Real Estate Tax Credit Capital Fund 46, Inc.	Portland	OR	DE	100.00		27-3218096	
PNC Real Estate Tax Credit Capital Fund 47, Inc.	Portland	OR	DE	100.00		26-1729574	
PNC Real Estate Tax Credit Capital Fund 48, Inc.	Portland	OR	DE	100.00		27-3896929	
PNC Real Estate Tax Credit Capital Fund 49, Inc.	Portland	OR	DE	100.00		45-2702958	
PNC Real Estate Tax Credit Capital Fund 50, Inc.	Portland	OR	DE	100.00		45-4677216	
PNC Real Estate Tax Credit Capital Fund 51, Inc.	Portland	OR	DE	100.00		46-0686964	
PNC Real Estate Tax Credit Capital Fund 52, Inc.	Portland	OR	DE	100.00		46-1328657	
PNC Real Estate Tax Credit Capital Fund 53, Inc.	Portland	OR	DE	100.00		46-3643197	
PNC Real Estate Tax Credit Capital Fund 54, Inc.	Portland	OR	DE	100.00		46-3633141	
PNC Real Estate Tax Credit Capital Fund 55, Inc.	Portland	OR	DE	100.00		46-1300199	
PNC Real Estate Tax Credit Capital Fund 56, Inc.	Portland	OR	DE	100.00		47-1243662	
PNC Real Estate Tax Credit Capital Fund 57, Inc.	Portland	OR	DE	100.00		47-2015260	
PNC Real Estate Tax Credit Capital Fund 58, Inc.	Portland	OR	DE	100.00		47-3685974	
PNC Real Estate Tax Credit Capital Fund 59, Inc.	Portland	OR	DE	100.00		47-4592924	
PNC Real Estate Tax Credit Capital Fund 60, Inc.	Portland	OR	DE	100.00		47-5295741	

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PNC Tax Credit Capital Fund 42, Inc.	Portland	OR	DE	100.00		26-3789908	
PNC Tax Credit Capital Fund 43, Inc.	Portland	OR	DE	100.00		27-1196528	
PNC Tax Credit Capital Fund 44, Inc.	Portland	OR	DE	100.00		27-1992417	
Columbia Housing Corporation	Portland	OR	OR	100.00		93-0973030	
Columbia Housing Pine Ridge SLP Corporation	Portland	OR	OR	100.00		93-1199263	
Columbia Housing SLP Corporation	Portland	OR	OR	100.00		93-1110460	
PNC Alliance, LLC	Pittsburgh	PA	DE	100.00		25-1785032	
PNC Merchant Services Company	Melville	NY	DE	60.00		25-1786760	
PNC ARHPF Fund 1 Managing Member, LLC	Louisville	KY	DE	100.00		47-1173756	
PNC ARHPF Warehouse Barrington PARC MM, LLC	Louisville	KY	DE	100.00		47-3245300	
PNC ARHPF Warehouse Blue Mountain MM, LLC	Louisville	KY	DE	100.00		47-4043928	
PNC ARHPF Warehouse Deville Manor MM, LLC	Louisville	KY	DE	100.00		47-1994903	
PNC ARHPF Warehouse Island Terrace MM, LLC	Louisville	KY	DE	100.00		47-2504158	
PNC ARHPF Warehouse Monoco Arms MM, LLC	Louisville	KY	DE	100.00		47-2002083	
PNC ARHPF Warehouse New Port Antonio MM, LLC	Louisville	KY	DE	100.00		47-4048413	
PNC ARHPF Warehouse Pinehurst Villas MM, LLC	Louisville	KY	DE	100.00		47-2015085	
PNC Australia Lease Finance Corporation	Cleveland	OH	OH	100.00		20-8926880	
PNC Bank Capital Securities, LLC	Wilmington	DE	DE	100.00		51-0402220	
PNC Bank International	Wilmington	DE	USA	100.00		25-1147012	
First Comercio, Participacoes e Servicos Ltda	Sao Paulo	Brazil	Brazil	100.00		N/A	
PNC Trade Services Limited	Kowloon	Hong Kong	Hong Kong	100.00		90-0047740	
The PNC Financial Services Holding Luxembourg S a r l	Luxembourg	Luxembourg	Luxembourg	100.00		N/A	
PNC Financial Services UK Ltd	West Sussex	United Kingdom	United Kingdom	100.00		N/A	549300E5NLR5Q5T42096
PNC Capital Advisors, LLC	Pittsburgh	PA	DE	100.00		27-0640560	
PNC Community Development Company, LLC	Wilmington	DE	DE	100.00		27-0760196	
Carroll County Development Corp.	Westminister	MD	MD	35.23		52-1904223	
PNC Community Development Corporation	Louisville	KY	KY	100.00		61-1187492	
PNC Community Partners, Inc.	Pittsburgh	PA	PA	100.00		25-1858081	
PNC Delaware Trust Company	Wilmington	DE	DE	100.00		81-0581990	
PNC Equipment Finance, LLC	Pittsburgh	PA	DE	100.00		25-1843642	
Gallatin Generation, LLC	Minneapolis	MN	DE	100.00		51-0407939	
Johnsonville Generation, LLC	Minneapolis	MN	DE	100.00		51-0407938	
Lagoon Creek I, LLC	Middletown	CT	DE	100.00		35-2165230	
Lagoon Creek II, LLC	Middletown	CT	DE	100.00		35-2165232	
PNC Aviation Resolution, LLC	Pittsburgh	PA	DE	100.00		27-2911085	
PNC Capital Leasing, LLC	Pittsburgh	PA	DE	100.00		25-1845205	
PNC Energy Capital LLC	Cincinnati	OH	DE	100.00		26-0211314	
Provident Auto Leasing Company	Cincinnati	OH	DE	100.00		N/A	
PNC Foundation	Pittsburgh	PA	PA	100.00		25-1202255	
PNC Investments LLC	Pittsburgh	PA	DE	100.00		42-1604685	
PNC Insurance Services, LLC	Wilmington	DE	DE	100.00		51-0257797	
PNC Memorial Foundation	Pittsburgh	PA	PA	100.00		25-1755771	
PNC Mortgage Acceptance Corp	Kansas City	MO	MO	100.00		43-1762749	
PNC Multifamily Mortgage LLC	Pittsburgh	PA	DE	100.00		46-4352235	
PNC NCNVINV, Inc.	Wilmington	DE	DE	100.00		27-0731437	549300C8FWI18J0R0C63
PNC New Markets Investment Partners, LLC	Pittsburgh	PA	DE	100.00		20-8054967	
PNC Ohio Trust Company	Cleveland	OH	OH	100.00		81-0991531	
PNC Preservation Investments, LLC	Louisville	KY	DE	100.00		47-1470629	
PNC REIT Holdings, Inc.	Pittsburgh	PA	DE	100.00		47-3822594	
PNC REIT Corp.	Pittsburgh	PA	DE	100.00		20-3338834	
PNC Preferred Funding LLC	Pittsburgh	PA	DE	100.00		20-5738138	
PNC Bank Asset Trust III	Pittsburgh	PA	DE	100.00		54-6772762	
PNC Bank Asset Trust IV	Pittsburgh	PA	DE	100.00		38-7106912	
PNC Bank Asset Trust V	Pittsburgh	PA	DE	100.00		36-7660557	
PNC Funding Asset Trust I	Pittsburgh	PA	DE	100.00		20-7308645	
PNC Funding Asset Trust II	Pittsburgh	PA	DE	100.00		20-7308690	
PNC Re, Inc.	Burlington	VT	VT	100.00		20-3581081	
PNC Steel City Advisors, LLC	Pittsburgh	PA	DE	100.00		47-1460387	
PNC TC, LLC	Louisville	KY	DE	100.00		47-1319041	
Procurement Alternatives Corporation	Cincinnati	OH	OH	100.00		31-1348999	
Provident Recap I, LLC	Cincinnati	OH	DE	100.00		31-1789671	
Solebury Capital LLC	New Hope	PA	PA	100.00		20-3429902	
Solebury Communications Group LLC	Stamford	CT	PA	100.00		20-3429959	
St Francis Equity Properties, LLC	Brookfield	WI	WI	100.00		39-1753535	
Clare Heights, LLC	Verona	WI	WI	99.99		N/A	
Mequon Senior Housing, LLC	Cedarburg	WI	WI	99.99		N/A	
Walworth Affordable Housing, LLC	Elkhorn	WI	WI	98.00		N/A	
Three PNC, LLC	Pittsburgh	PA	DE	100.00		20-4932017	
Three PNC Commercial, LLC	Pittsburgh	PA	DE	100.00		20-4932173	
Three PNC Garage, LLC	Pittsburgh	PA	DE	100.00		20-4932544	
Three PNC Hotel, LLC	Pittsburgh	PA	DE	100.00		20-4932458	
Three PNC Triangle, LLC	Pittsburgh	PA	DE	100.00		20-4932504	
PNC DC Holding, Inc.	Wilmington	DE	DE	100.00		20-2812607	
PNC DC Assets, LLC	Wilmington	DE	DE	100.00		20-2812730	
PNC Capital Trust C	Wilmington	DE	DE	100.00		25-6576726	
PNC Holding LLC	Pittsburgh	PA	DE	100.00		51-0337069	
Alpine Indemnity Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		25-1621422	
Mercantile/Colorado, LLC	Baltimore	MD	DE	100.00		81-0584488	
National City Community Development 909, LLC	Cleveland	OH	OH	100.00		34-1363951	
CDCSPGP, LLC	Pittsburgh	PA	DE	100.00		45-4638192	
Nat City Inv Fd No. 14, LLC	Cleveland	OH	OH	100.00		80-0143202	
National City NMTC No. 14 LLC	Cleveland	OH	OH	99.99	see footnote B	35-2288386	

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Entity	City	State/ Country	Incorporated	%	Remarks	Tax ID #	LEI (if applicable)
Nat City Inv't Fd No. 15, LLC	Cleveland	OH	OH	100.00		80-0143205	
National City NMTC No. 15 LLC	Cleveland	OH	OH	99.99	see footnote B	35-2288387	
Nat City Inv't Fd No. 16, LLC	Cleveland	OH	OH	100.00		80-0143206	
National City NMTC No. 16 LLC	Cleveland	OH	OH	99.99	see footnote B	35-2288388	
Nat City Inv't Fd No. 7, LLC	Cleveland	OH	OH	100.00		14-1988486	
National City NMTC No. 6 LLC	Cleveland	OH	OH	99.99	see footnote B	30-0386831	
National City NMTC No. 7 LLC	Cleveland	OH	OH	99.99	see footnote B	30-0386832	
National City CDC UGP Properties Investment Fund LLC	Cleveland	OH	OH	100.00		26-0848917	
National City New Market Fund, Inc.	Cleveland	OH	OH	100.00		04-3818441	
Nat City Inv't Fd No. 6, LLC	Cleveland	OH	OH	100.00		14-1988483	
National City DND, Inc.	Cleveland	OH	DE	100.00		62-1535176	
National City Equity Partners, Inc.	Cleveland	OH	DE	100.00		34-1327410	
National City Equity Partners, LLC	Cleveland	OH	OH	100.00		56-2432655	
NC NMTC Manager, LLC	Pittsburgh	PA	DE	100.00		45-4668687	
NCCDC, Inc.	Cleveland	OH	OH	100.00		90-0354509	
PAGIC Equity, LLC	Pittsburgh	PA	DE	100.00		22-3829764	
PNC Capital Finance, LLC	Pittsburgh	PA	DE	100.00		45-2192490	
PNC Capital Markets, LLC	Pittsburgh	PA	PA	100.00		20-3719138	70GNSSLOJ8U3B9Y5F18
PNC Commercial LLC	Pittsburgh	PA	DE	100.00		25-1847736	
PNC Commodity Hedging LLC	Pittsburgh	PA	PA	100.00		20-3157358	549300X32RKOIENF6X47
PNC Domain Co., LLC	Pittsburgh	PA	DE	100.00		45-4807343	
PNC Equities LLC	Wilmington	DE	DE	100.00		52-2011212	
PNC Equity Partners G.P. Holdings, Inc.	Pittsburgh	PA	DE	100.00		51-0410850	
Allegheny Capital Partners, LLC	Pittsburgh	PA	DE	80.00	Managing Member	25-1859111	
PNC Equity Partners, L.P.	Pittsburgh	PA	DE		General Partner	25-1859107	
PNC Equity Partners II G.P. Holdings, Inc.	Pittsburgh	PA	DE	100.00		20-4514461	
Allegheny Capital Partners II, LLC	Pittsburgh	PA	DE	67.00	Managing Member	20-4595605	
PNC Equity Partners II, L.P.	Pittsburgh	PA	DE		General Partner	20-4595668	
PNC Equity Partners L.P. Holdings, Inc.	Pittsburgh	PA	DE	100.00		51-0410849	
PNC Equity Partners II, L.P.	Pittsburgh	PA	DE	25.87	Limited Partner	20-4595668	
PNC Equity Partners, L.P.	Pittsburgh	PA	DE	16.57	Limited Partner	25-1859107	
PNC Funding Corp.	Philadelphia	PA	PA	100.00		25-1234372	549300M6NOJJ5ZNHU297
PNC Investment Company LLC	Wilmington	DE	DE	100.00		51-0206717	
Absolute Return Liquidating Trust DST	Wilmington	DE	DE	100.00		45-6653764	
Alternative Strategies Liquidating Trust DST	Wilmington	DE	DE	100.00		45-6653748	
Long-Short Liquidating Trust DST	Wilmington	DE	DE	100.00		45-6653730	
PNC Mezzanine Management Corp.	Pittsburgh	PA	PA	100.00		20-3475689	
PNC Mezzanine Partners G.P. Holdings, Inc.	Pittsburgh	PA	DE	100.00		20-3466653	
Allegheny Mezzanine Partners, LLC	Pittsburgh	PA	DE	20.00	Managing Member	20-3559326	
PNC Mezzanine Partners III, L.P.	Pittsburgh	PA	DE		General Partner	20-3559337	
PNC Mezzanine Partners L.P. Holdings, Inc.	Pittsburgh	PA	DE	100.00		20-3466597	
PNC Mezzanine Partners III, L.P.	Pittsburgh	PA	DE	56.94	Limited Partner	20-3559337	
PNC Realty Investors, Inc.	Baltimore	MD	MD	100.00		20-4352273	
PNC Venture LLC	Wilmington	DE	DE	100.00		51-0270803	
Sterling Private Fund Investors, LLC	Wilmington	DE	DE	100.00		27-0779480	
LBO Partners, L.P.	Cleveland	OH	DE		General Partner	34-1799715	
PEF Investments, LLC	Cleveland	OH	DE		General Partner	34-1877861	
Private Equity Fund, LLC	Cleveland	OH	DE		General Partner	31-1574178	
Sterling Private Equity Partners, L.P.	Cleveland	OH	OH		General Partner	20-0422352	

(A) PNC Bank, NA has 2 foreign branches (Canada and Nassau)

(B) 99.99% owned by the Nat City Inv't Fd indicated; 0.01% owned by National City New Market Fund, Inc.

The PNC Financial Services Group, Inc.
Organization Chart - Company and Location of BlackRock, Inc. entities
December 31, 2015

Entity	City	State/ Country	Incorporated	%	Remarks	Tax ID #	LEI (if applicable)
BlackRock, Inc.	New York	NY	DE	21.10		32-0174431	549300LRIF3NWCU26A80
BAA Holdings, LLC	Wilmington	DE	DE	100.00	Sole Member	26-0873185	
BlackRock Holdco 2, Inc.	Wilmington	DE	DE	100.00		68-0635711	549300J1UCOHIB0LNS77
BlackRock Financial Management, Inc.	New York	NY	DE	100.00		13-3806691	549300LVXYIVJKE13M84
BAA Azure Harbour (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BAA CARS (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BAA Co-Investment Fund III (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BAA Co-Investment Fund IV (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BAA Columbia River (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BAA Erudite ARS (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BAA K Special Opportunity Fund (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BAA MALT (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BlackRock Alternative Advisors (GenPar), LLC	Seattle	WA	DE	100.00	Member	13-3806691	
BlackRock Alternative Advisors GP Holdings, LLC	Seattle	WA	DE		Managing Member	26-0899312	
BAA Co-Investment Fund (GenPar), LLC	Seattle	WA	DE	100.00	Member	26-0899312	
BAA Co-Investment Fund II (GenPar), LLC	Seattle	WA	DE	100.00	Member	26-0899312	
BAA Financial Ventures II (GenPar), LLC	Seattle	WA	DE	100.00	Member	26-0899312	
BAA Private Capital 2002 (GenPar), LLC	Plainsboro	NJ	DE	100.00	Member	26-0899312	
BAA Private Capital II (GenPar), LLC	Plainsboro	NJ	DE	100.00	Member	26-0899312	
BAA Private Capital III (GenPar), LLC	Plainsboro	NJ	DE	100.00	Member	26-0899312	
BAA Real Assets (GenPar), LLC	Seattle	WA	DE	100.00	Member	26-0899312	
BAA Real Assets II (GenPar), LLC	Seattle	WA	DE	100.00	Member	26-0899312	
BlackRock AP Investment Holdco, LLC	Wilmington	DE	DE	100.00	Sole Member	13-3806691	
BlackRock ASG Master Carry, L.P. - Blue Peninsula Series	New York	NY	DE		General Partner	13-3806691	
Blue Peninsula Fund (GenPar), LLC	New York	NY	DE		Managing Member	47-3219801	
Blue Peninsula Fund, L.P.	New York	NY	DE		General Partner	47-3220091	5493001VW8DJTH030Z09
BlackRock ASG Master Carry, L.P. - Boardwalk I Series	New York	NY	DE		General Partner	13-3806691	
Boardwalk I (GenPar), LLC	New York	NY	DE		Managing Member	13-3806691	
Boardwalk I, L.P.	New York	NY	DE		General Partner	47-1834418	549300IZ8GMJJ0TQIE18
BlackRock ASG Master Carry, L.P. - Coastline Series	New York	NY	DE		General Partner	13-3806691	
Coastline Fund (GenPar), LLC	New York	NY	DE		Managing Member	13-3806691	
Coastline Fund, L.P.	New York	NY	DE		General Partner	47-3065270	549300L1X7DDDF5P8357
BlackRock ASG Master Carry, L.P. - Fair Lane Series	New York	NY	DE		General Partner	13-3806691	
Fair Lane Investment Partners (GenPar), LLC	New York	NY	DE		Managing Member	13-3806691	
Fair Lane Investment Partners, L.P.	New York	NY	DE		General Partner	47-2356510	549300PQN8FM90EP0C22
BlackRock ASG Master Carry, L.P. - Oak Marsh Series	New York	NY	DE		General Partner	13-3806691	
Oak Marsh Global Opportunities Fund (GenPar), LLC	New York	NY	DE		Managing Member	13-3806691	
Oak Marsh Global Opportunities Fund, L.P.	New York	NY	DE		General Partner	47-2538739	549300M0PQJWOYCKSKT92
BlackRock Capital Holdings, Inc.	Wilmington	DE	DE	100.00		20-8343733	
BlackRock Advisors, LLC	Wilmington	DE	DE	100.00	Sole Member	23-2784752	5493001LN9MRM6A35J74
BlackRock Capital Management, Inc.	Wilmington	DE	DE	100.00		51-0395386	549300K1YYWSA5XFNI631
BlackRock Funding International, Ltd	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Funds Services Group LLC	Wilmington	DE	DE	100.00	Sole Member	20-1908498	
BlackRock Operations (Luxembourg) S.a.r.l.	Senningerberg	Luxembourg	Luxembourg	100.00		N/A	
BR Jersey International Holdings I, L.P.	St Helier	Jersey	Jersey	14.00	Limited Partner	N/A	
Acero C.V.	Amsterdam	Netherlands	Netherlands	99.00	Limited Partner	N/A	
Acero Cooperatief U.A.	Amsterdam	Netherlands	Netherlands	99.00	Member	N/A	
Acero Holdings I B.V.	Amsterdam	Netherlands	Netherlands	100.00	Sole Member	N/A	
BlackRock Mexico Infraestructura I, S. de R.L. de C.V.	Cuauhtemoc	Mexico	Mexico	99.99	Member	N/A	
BlackRock Mexico Infraestructura II, S. de R.L. de C.V.	Cuauhtemoc	Mexico	Mexico	99.99	Member	N/A	
Tlali Acero, S.A. de C.V., SOFOM ENR	Cuauhtemoc	Mexico	Mexico	99.99		N/A	
Acero Holdings II B.V.	Amsterdam	Netherlands	Netherlands	100.00	Sole Member	N/A	
Acero Dutch Holdco, LLC	Wilmington	DE	DE	100.00	Sole Member	47-4791220	
Acero Cooperatief U.A.	Amsterdam	Netherlands	Netherlands	1.00	Member	N/A	
(see listing of subsidiaries above on page 1 of 8)							
Acero Dutch Holdco II, LLC	Wilmington	DE	DE	100.00	Sole Member	47-5258070	
BlackRock (Isle of Man) Holdings Limited	Douglas	Isle of Man	Isle of Man	100.00		N/A	
BlackRock (Isle of Man) Limited	Douglas	Isle of Man	Isle of Man	100.00		N/A	
BlackRock Canada Holdings LP	Toronto	Canada	Canada	99.99	Limited Partner	98-1083089	
BlackRock Canada Holdings, ULC	Calgary	Canada	Canada	100.00		N/A	
BlackRock Asset Management Canada Limited/Gestion d'actifs BlackF	Toronto	Canada	Canada	100.00		N/A	549300YTZPMRP8RYSY86
BlackRock Capital Markets Partners Fund (GenPar), LLC	New York	NY	DE	100.00	Sole Member	13-3806691	
Capital Markets Partners Fund, L.P.	New York	NY	DE		General Partner	47-2323728	549300XX26M9NQ3WMH41
Capital Markets Partners Fund (Offshore), L.P.	New York	NY	Cayman Islands		General Partner	98-1204843	549300BEYZ01IHDOKS88
BlackRock Chile Holdings Inversiones Limitada	Santiago	Chile	Chile	1.00		N/A	
BlackRock Holdco 4, LLC	Wilmington	DE	DE	100.00	Sole Member	27-1438207	
BlackRock Holdco 5, LLC	Wilmington	DE	DE	100.00	Sole Member	27-1438320	
BlackRock Holdco 6, LLC	Wilmington	DE	DE	10.00	Member	27-1438468	
BlackRock Holdco 6, LLC	Wilmington	DE	DE	90.00	Member	27-1438468	
BlackRock Delaware Holdings, Inc.	San Francisco	CA	DE	100.00		27-1037825	
BlackRock Asset Management International Inc	San Francisco	CA	DE	100.00		61-1715751	
iShares Delaware Trust Sponsor LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
BlackRock Fund Advisors	San Francisco	CA	CA	100.00		94-2948313	549300Y0OGP0Y1M95C20
BlackRock Corporation US Inc.	San Francisco	CA	CA	100.00		20-0393218	
BlackRock Institutional Trust Company, N.A.	San Francisco	CA	USA	100.00	see footnote G	94-3112180	549300RK1FB0VMTDP087
BlackRock Execution Services	San Francisco	CA	CA	100.00		94-3231066	
BlackRock Institutional Services, Inc.	San Francisco	CA	DE	100.00		45-5000151	
BlackRock Jersey Finco I Limited	St Helier	Jersey	Jersey	100.00		N/A	
BlackRock International Holdings, Inc.	New York	NY	DE	100.00		06-1543710	
BlackRock Australia Holdco Pty Ltd	Melbourne	Australia	Australia	100.00		N/A	
BlackRock Investment Management (Australia) Limited	Melbourne	Australia	Australia	100.00		N/A	549300ZSSQNS45HST19
BlackRock Property Australia Pty Limited	Sydney	Australia	Australia	100.00		N/A	
BlackRock Brasil Gestora de Investimentos Ltda.	Sao Paulo	Brazil	Brazil	99.99		N/A	

The PNC Financial Services Group, Inc.
Organization Chart - Company and Location of BlackRock, Inc. entities
December 31, 2015

Entity	City	State/ Country	Incorporated	%	Remarks	Tax ID #	LEI (if applicable)
BlackRock Cayman Finco Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		98-0507969	
BlackRock UK 1, LP (see listing of subsidiaries below on page 3 of 8)	London	England	UK	0.02	Limited Partner	98-0507971	
BlackRock UK 2, LLP (see listing of subsidiaries below on page 3 of 8)	London	England	UK	33.33	Limited Partner	98-1032667	549300976S9FZQSLJL06
BlackRock UK 3, LLP	London	England	UK	33.33	Limited Partner	98-1032746	549300HWJ2706H2DYJ12
BlackRock UK 4, LLP	London	England	UK	33.33	Limited Partner	98-1032759	549300JBLOS90W1SE311
BlackRock Chile Asesorias Limitada	Santiago	Chile	Chile	1.00		N/A	
BlackRock Chile Holdings Inversiones Limitada	Santiago	Chile	Chile	99.00		N/A	
BlackRock Chile Asesorias Limitada	Santiago	Chile	Chile	99.00		N/A	
BlackRock Colombia Holdco, LLC	Wilmington	DE	DE	100.00	Sole Member	51-0006522	
BlackRock Colombia SAS	Bogota	Colombia	Colombia	100.00		N/A	
BlackRock Group Limited	London	England	UK	90.00	see footnote C	52-2096782	549300DNMJKZFC0LXM57
BlackRock Advisors (UK) Limited	London	England	UK	100.00	see footnote D	N/A	549300LM7VVDLE83N49
BlackRock Asset Management Investors Services Limited	London	England	UK	100.00		98-0652060	
BlackRock Asset Management U K Limited	London	England	UK	100.00		N/A	54930002OCIU74PSB07
BlackRock Europe Development Management Limited	Nicosia	Cyprus	Cyprus	100.00		N/A	
BlackRock Executor & Trustee Co. Limited	London	England	UK	100.00		N/A	
BlackRock Finance Europe Limited	London	England	UK	100.00		N/A	
BlackRock Fund Management Company S.A.	Luxembourg	Luxembourg	Luxembourg	100.00		N/A	54930070BASO617XT291
BlackRock International Ltd	Edinburgh	Scotland	Scotland	100.00	see footnote E	N/A	5493008YUGP5E0IIBD70
BlackRock Life Limited	London	England	UK	100.00		98-0693134	549300HQCTVA2RJNC138
BlackRock Investment Management (UK) Limited	London	England	UK	100.00	see footnote F	N/A	549300QXP30FD81KVQ43
BlackRock Asset Management Deutschland AG	Munich	Germany	Germany	100.00		N/A	549300NFJRUOWRTZM703
iShares (DE) I Investmentaktiengesellschaft mit Teilgesellschaftsvermo	Munich	Germany	Germany	100.00		N/A	
BlackRock Fund Managers Limited	London	England	UK	100.00		N/A	549300XGPOF48GVY4D26
BlackRock Investment Management (Korea) Limited	Seoul	Korea, South	Korea	100.00		N/A	
BlackRock Luxembourg Holdco S a r l	Luxembourg	Luxembourg	Luxembourg	100.00		N/A	
BlackRock (Luxembourg) S A	Senningerberg	Luxembourg	Luxembourg	100.00		N/A	
BlackRock Investment Management Ireland Holdings Limited	Dublin	Ireland	Ireland	100.00		N/A	
BlackRock Asset Management Ireland Limited	Dublin	Ireland	Ireland	100.00		N/A	5493004330BCAPB3GT42
BlackRock Fund Management Company (Ireland) Limited	Dublin	Ireland	Ireland	100.00		98-1128527	
BlackRock Investment Management (Dublin) Limited	Dublin	Ireland	Ireland	100.00		N/A	549300K54WGVFVNL5J55
BlackRock UK Holdco Limited	London	England	UK	100.00		98-0194352	5493004Y7H5NH3JK6881
BlackRock Asset Management (Schweiz) AG	Zurich	Switzerland	Switzerland	100.00		N/A	549300VS9BE0FOLBNV94
BlackRock GP VI Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Private Equity Partners VI Master, L P	Edinburgh	Scotland	Scotland		General Partner	98-1036308	
BlackRock Private Equity Partners VI US Feeder, L P.	Wilmington	DE	DE		General Partner	90-1000634	
BlackRock Private Equity Partners VI US, L P.	Wilmington	DE	DE		General Partner	32-0414035	
BlackRock Private Equity Partners VI, L P.	Georgetown	Cayman Islands	England		General Partner	98-1036250	
BlackRock Growth Markets I Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Growth Markets I SGP Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Growth Markets I GenPar, L P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Growth Markets I, L P.	Georgetown	Cayman Islands	England		General Partner	N/A	
BlackRock Private Growth Markets I Investments, L	Edinburgh	Scotland	Scotland	100.00	Limited Partner	98-0558155	
BlackRock Private Growth Markets I Investments, L P	Edinburgh	Scotland	Scotland		General Partner	98-0558155	
BlackRock Growth Markets II Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Growth Markets II SGP Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Growth Markets II GenPar, L P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Growth Markets II, L P.	Georgetown	Cayman Islands	England		General Partner	98-1036266	
BlackRock Private Growth Markets II Investments, I	Edinburgh	Scotland	Scotland	100.00	Limited Partner	98-1036307	
BlackRock PGM II Investments Cayman, Ltd	Plainsboro	NJ	Cayman Islands	100.00		98-1151826	
BlackRock Growth Markets II Incentive, L P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Growth Markets II Investments, L P	Edinburgh	Scotland	Scotland		General Partner	98-1036307	
BlackRock PGM II Investments Cayman, Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-1151826	
BlackRock Infrastructure I Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Infrastructure I SGP Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Infrastructure I GenPar, L P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Infrastructure I, L P.	Georgetown	Cayman Islands	England		General Partner	N/A	
BlackRock Private Infrastructure I Investments, L P	Edinburgh	Scotland	Scotland	100.00	Limited Partner	98-0575553	
BlackRock Private Infrastructure I Investments, L P.	Edinburgh	Scotland	Scotland		General Partner	98-0575553	
BlackRock Infrastructure II Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Infrastructure II SGP Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Infrastructure II GenPar, L P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Infrastructure II, L P.	Georgetown	Cayman Islands	England		General Partner	98-0703119	
BlackRock Private Infrastructure II Investments, L P	Edinburgh	Scotland	Scotland	100.00	Limited Partner	98-0703344	
BlackRock Infrastructure II Incentive, L P	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Infrastructure II Investments, L P	Edinburgh	Scotland	Scotland		General Partner	98-0703344	
BlackRock PEP VI Incentive GP Limited	Edinburgh	Scotland	Scotland	100.00		98-1119310	
BlackRock Private Equity II Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Private Equity IV Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Private Equity IV SGP Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Private Equity IV GenPar, L P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Equity Partners IV, L P.	Georgetown	Cayman Islands	England		General Partner	N/A	
BlackRock Private Equity Partners IV Investments, I	Edinburgh	Scotland	Scotland	100.00	Limited Partner	98-0539371	
BlackRock Private Equity Partners IV Investments, L P.	Edinburgh	Scotland	Scotland		General Partner	98-0539371	
BlackRock Private Equity MGP Limited	Hamilton	Bermuda	Bermuda	100.00		98-0396201	
BlackRock Private Equity II GenPar, L P	Hamilton	Bermuda	Bermuda		General Partner	98-0396204	
BlackRock Private Equity Partners II, L P	Hamilton	Bermuda	Bermuda		General Partner	98-0396199	
BlackRock Private Equity III GenPar, L P.	Hamilton	Bermuda	Bermuda		General Partner	98-0445092	
BlackRock Private Equity Partners III, L P.	Hamilton	Bermuda	Bermuda		General Partner	98-0445140	
BlackRock Private Equity Partners III Asia, L P.	Hamilton	Bermuda	Bermuda		General Partner	98-0499840	
BlackRock Vintage Partners, L P	Hamilton	Bermuda	Bermuda		General Partner	98-0566019	

The PNC Financial Services Group, Inc.
Organization Chart - Company and Location of BlackRock, Inc. entities
December 31, 2015

Entity	City	State/ Country	Incorporated	%	Remarks	Tax ID #	LEI (if applicable)
Feronia, L.P.	Hamilton	Bermuda	Bermuda		General Partner	98-0417648	
BlackRock Private Equity III (Feeder No. 1), LP	Hamilton	Bermuda	England		General Partner	N/A	5493007B7NUU2KS40Z52
BlackRock Vintage Partners Subholding, L.P.	Hamilton	Bermuda	Bermuda		General Partner	98-0566020	
BlackRock Private Equity V Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Private Equity V SGP Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock Private Equity Partners V Incentive, L.P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Equity Partners V Investments, L.P.	Edinburgh	Scotland	Scotland		General Partner	98-0668415	
BlackRock Private Equity V GenPar, L.P.	Georgetown	Cayman Islands	Cayman Islands		General Partner	N/A	
BlackRock Private Equity Partners V, L.P.	Georgetown	Cayman Islands	England		General Partner	N/A	
BlackRock Private Equity Partners V Investments, L	Edinburgh	Scotland	Scotland	100.00	Limited Partner	98-0668415	
BlackRock Channel Islands Holdco Limited	St Helier	Jersey	Jersey	100.00		N/A	
BlackRock (Channel Islands) Limited	St Helier	Jersey	Jersey	100.00		N/A	5493003D640CKSY0RO11
BlackRock First Partner Limited	St Helier	Jersey	Jersey	100.00		N/A	
St. Albans House Nominees (Jersey) Ltd	St Helier	Jersey	Jersey	100.00		98-0693158	
BlackRock Pensions Nominees Limited	London	England	UK	100.00		N/A	
BlackRock Property Europe Limited	London	England	UK	100.00		N/A	
BlackRock Property France S a r l	Paris	France	France	100.00		N/A	
BlackRock Property Germany GmbH	Frankfurt	Germany	Germany	100.00		N/A	
BlackRock Property Lux Sarl	Luxembourg	Luxembourg	Luxembourg	100.00		N/A	
BlackRock (Netherlands) B.V.	Amsterdam	Netherlands	Netherlands	100.00		N/A	549300NYKTM6QSC00L42
BlackRock (Slovakia) s r o	Panenska	Slovakia	Slovakia		Managing Member	N/A	
Grosvenor Alternate Partner Limited	London	England	UK	100.00		N/A	
Grosvenor Ventures Limited	London	England	UK	100.00		N/A	
Mercury Carry Company Ltd	Douglas	Isle of Man	Isle of Man	100.00		N/A	
Mercury Private Equity MUST 3 (Jersey) Limited	St Helier	Jersey	Jersey	99.02		N/A	
Wimco Nominees Ltd.	London	England	UK	100.00		N/A	
BlackRock Holdco 3, LLC	Wilmington	DE	DE	100.00	Sole Member	26-1413223	
Acero C V	Amsterdam	Netherlands	Netherlands	1.00	Limited Partner	N/A	
BlackRock Canada Holdings LP	Toronto	Canada	Canada		General Partner	98-1083089	
(see listing of subsidiaries above on page 1 of 8)							
BlackRock Cayman Capital Holdings, Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		N/A	
BlackRock UK A LLP	London	England	UK	99.93	Limited Partner	N/A	549300BQQY26AKRDWS06
BlackRock UK 2, LLP	London	England	UK	66.66	Limited Partner	98-1032667	549300976S9FZQSLJL06
BlackRock UK 3, LLP	London	England	UK	66.66	Limited Partner	98-1032746	549300HWJ2706H2DYJ12
BlackRock UK 4, LLP	London	England	UK	66.66	Limited Partner	98-1032759	549300JBL0S90W1SE311
BlackRock UK 1, LP	London	England	UK		General Partner	98-0507971	
(see listing of subsidiaries below on page 3 of 8)							
BlackRock Mexican Holdco, LLC	Wilmington	DE	DE	100.00	Sole Member	N/A	
BR Acquisition Mexico S A. de C.V.	Cuauhtemoc	Mexico	Mexico	99.90		N/A	
Impulsora y Promotora BlackRock Mexico, S A. de C V	Cuauhtemoc	Mexico	Mexico	99.90		N/A	
Prestadora de Servicios Integrales BlackRock Mexico, S A. de C V	Cuauhtemoc	Mexico	Mexico	98.00		N/A	
Impulsora y Promotora BlackRock Mexico, S A. de C V	Cuauhtemoc	Mexico	Mexico	0.10		N/A	
Prestadora de Servicios Integrales BlackRock Mexico, S A. de C V	Cuauhtemoc	Mexico	Mexico	2.00		N/A	
BlackRock Mexico Infraestructura I, S de R.L. de C V	Cuauhtemoc	Mexico	Mexico	0.01	Member	N/A	
BlackRock Mexico Infraestructura II, S de R.L. de C V	Cuauhtemoc	Mexico	Mexico	0.01	Member	N/A	
BlackRock UK 1, LP	London	England	UK	91.97	Limited Partner	98-0507971	
BlackRock Finco UK, Ltd	London	England	UK	100.00		98-0507972	549300G1L71URGQBIF24
BlackRock Group Limited	London	England	UK	10.00		52-2096782	549300DNNMJKZFC0LXM37
(see listing of subsidiaries above on page 2 of 8)							
BlackRock Finco, LLC	Wilmington	DE	DE	100.00	Sole Member	68-0635709	
BlackRock Jersey Finco 2 Limited	St Helier	Jersey	Jersey	100.00		N/A	
BlackRock (Singapore) Holdco Pte. Ltd	Singapore	Singapore	Singapore	100.00		N/A	
BlackRock Advisors Singapore Pte. Ltd.	Singapore	Singapore	Singapore	100.00		N/A	
BlackRock Services India Private Limited	Gurgaon	India	India	99.99		N/A	
DSP BlackRock Investment Managers Private Limited	Mumbai	India	India	40.00		N/A	
DSP BlackRock Trustco Company Private Limited	Mumbai	India	India	49.00		N/A	
BlackRock Asia-Pac Holdco, LLC	Wilmington	DE	DE	100.00	Sole Member	N/A	
BlackRock HK Holdco Limited	Hong Kong	Hong Kong	Hong Kong	100.00		N/A	
BlackRock Asset Management North Asia Limited	Hong Kong	Hong Kong	Hong Kong	100.00		98-0650041	5493005381VQOFAXTY69
BlackRock (Shanghai) Co. Ltd	Shanghai	China	China	100.00		N/A	
BlackRock Property Consulting (Beijing) Co. Ltd.	Beijing	China	China	100.00		N/A	
BlackRock Cayco Limited	Georgetown	Cayman Islands	Cayman Islands	100.00		98-0507970	
BlackRock Lux Finco S a r l.	Luxembourg	Luxembourg	Luxembourg	100.00		98-0513687	
BlackRock Trident Holding Company Limited	Dublin	Ireland	Ireland	100.00		98-0507967	
BlackRock Japan Holdings GK	Tokyo	Japan	Japan	100.00		N/A	
BlackRock Japan Co., Ltd	Tokyo	Japan	Japan	100.00		N/A	549300YRZ2DC387FBW20
BlackRock Investment Management (Taiwan) Limited	Taipei	Taiwan	Taiwan	100.00		N/A	
BlackRock Overseas Investment Fund Management (Shanghai) Co., Lt	Shanghai	China	China	100.00		N/A	
BlackRock Property Asia Limited	Hong Kong	China	China	100.00		N/A	
BlackRock Property Malaysia Sdn Bhd.	Kuala Lumpur	Malaysia	Malaysia	100.00		N/A	
BlackRock (Hong Kong) Limited	Hong Kong	Hong Kong	Hong Kong	100.00		N/A	54930063T1R8Y1F22Q36
BlackRock Property Singapore Pte. Ltd.	Singapore	Singapore	Singapore	100.00		N/A	
BlackRock Services India Private Limited	Gurgaon	India	India	0.01		N/A	
BlackRock (Singapore) Limited	Singapore	Singapore	Singapore	100.00		N/A	549300UZGBQ6FHD2X729
BR Acquisition Mexico S.A. de C.V.	Cuauhtemoc	Mexico	Mexico	0.01		N/A	
(see listing of subsidiaries above on page 3 of 8)							
BR Jersey International Holdings LP	St Helier	Jersey	Jersey	86.00	General Partner	N/A	
(see listing of subsidiaries above on page 1 of 8)							
Tlali Acero, S.A. de C.V., SOFOM ENR	Cuauhtemoc	Mexico	Mexico	0.01		N/A	
BlackRock Investments, LLC	Wilmington	DE	DE	100.00	Sole Member	13-3806694	
BlackRock Mortgage Ventures, LLC	Wilmington	DE	DE	100.00	Sole Member	26-2007086	
PennyMac Financial Services, Inc.	Calabasas	CA	DE	10.38	see footnote H	80-0882793	
Private National Mortgage Acceptance Company	Calabasas	CA	DE	100.00		26-1740587	

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PennyMac Loan Services, Inc.	Calabasas	CA	CA	100.00		26-4667049	
PennyMac Loan Services, LLC	Calabasas	CA	DE		Managing Member	26-2049351	
PNMAC Capital Management, LLC	Calabasas	CA	DE		Managing Member	26-2350644	
PNMAC Mortgage Opportunity Fund Investors, LLC	Calabasas	CA	DE		Managing Member	26-2775776	
PNMAC Opportunity Fund Associates, LLC	Calabasas	CA	DE		Managing Member	26-3052222	
BlackRock Niagara, LLC	New York	NY	DE	100.00	Sole Member	13-3806691	
BlackRock NTR Renewable Power Fund (GenPar), L.P.	New York	NY	Cayman Islands		General Partner	98-1026375	
BlackRock NTR Holdings (B) I, L.P.	New York	NY	Cayman Islands		General Partner	98-1080197	
BlackRock NTR Renewable Power Fund (A), L.P.	New York	NY	Cayman Islands		General Partner	98-1026388	
BlackRock NTR Renewable Power Fund (B), L.P.	New York	NY	Cayman Islands		General Partner	98-1026401	
BlackRock NTR Renewable Power Fund (C), L.P.	New York	NY	Cayman Islands		General Partner	98-1026409	
BlackRock NTR Renewable Power Fund (Feeder B), L.P.	New York	NY	Cayman Islands		General Partner	98-1026476	
BlackRock NTR Holdings (B) (Finale) VI, LLC	New York	NY	DE		Managing Member	47-2945532	
BlackRock NTR Holdings (B) (Spearville 3) II, LLC	New York	NY	DE		Managing Member	46-1669130	
BlackRock NTR Holdings (B) (Windthorst-2) III, LLC	New York	NY	DE		Managing Member	46-4215061	
BlackRock NTR Holdings (B) (Zephyr CWS) I, LLC	New York	NY	DE		Managing Member	46-1463074	
BlackRock NTR Renewable Power Fund (Feeder C), L.P.	New York	NY	Cayman Islands		General Partner	98-1026495	
BlackRock NTR Renewable Power Fund (Master), L.P.	New York	NY	DE		General Partner	45-3915308	
RPG Windthorst 2 Investco, LLC	New York	NY	DE		Managing Member	45-3915308	
Spearville 3 Investco, LLC	New York	NY	DE		Managing Member	45-3915308	
Zephyr CWS Investco, LLC	New York	NY	DE		Managing Member	45-3915308	
BlackRock NTR Renewable Power Fund (Offshore Master), L.P.	New York	NY	Cayman Islands		General Partner	98-1026451	549300UEOHC08127PS81
BlackRock Renewable Holdings Limited	Dublin	Ireland	Ireland	100.00		98-1078529	
BlackRock Renewable Finance (Dublin) Limited	Dublin	Ireland	Ireland	100.00		98-1078655	
BlackRock Renewables Ireland Limited	Dublin	Ireland	Ireland	100.00		98-1087548	
BlackRock Renewables Luxembourg S a r l	Senningerberg	Luxembourg	Luxembourg	100.00		N/A	
3271266 Nova Scotia Company	Halifax	Nova Scotia	Canada	100.00		N/A	
3271267 Nova Scotia Company	Halifax	Nova Scotia	Canada	100.00		N/A	
3276880 Nova Scotia Company	Halifax	Nova Scotia	Canada	100.00		N/A	
3276881 Nova Scotia Company	Halifax	Nova Scotia	Canada	100.00		N/A	
BlackRock Renewables UK Limited	London	England	UK	100.00		98-1099391	
BlackRock Realty Advisors, Inc.	San Francisco	CA	DE	100.00		94-3262034	549300X1IGRE9YNGOO61
BlackRock Cal I Investor, LLC	San Francisco	CA	DE	95.00	Member	20-4525835	
BlackRock Global Real Estate Opportunity Fund, LLC	San Francisco	CA	DE	100.00	Sole Member	20-8275019	
BlackRock Global Real Estate Opportunity Fund E, L.P.	Florham Park	NJ	DE		General Partner	41-2238991	
BlackRock Global Real Estate Opportunity Fund F, L.P.	Florham Park	NJ	DE		General Partner	26-2786967	
BlackRock Global Real Estate Opportunity Fund T, L.P.	Florham Park	NJ	DE		General Partner	35-2291814	
BRGREOF BLKR, LP	Florham Park	NJ	UK		General Partner	98-0559530	
BlackRock Residential Opportunity Fund GP, LLC	San Francisco	CA	DE	100.00	Sole Member	01-0907260	
BlackRock Residential Opportunity Feeder Fund 2, L.P.	San Francisco	CA	DE		General Partner	26-3111538	
BlackRock Residential Opportunity Feeder Fund 2 LLC	San Francisco	CA	DE	100.00	Sole Member	26-3119506	
BlackRock Residential Opportunity Fund Operating Partnership, L.P.	San Francisco	CA	DE		General Partner	80-0226288	
BJP-ROF Jordan Ranch LLC	San Francisco	CA	DE	80.00	Member	26-2460240	
BR Carriage Hill, LLC	San Francisco	CA	DE	100.00	Sole Member	45-2576065	
Carriage Hill JV LLC	San Francisco	CA	DE	90.00	Member	45-0676514	
BR Cortina Acquisition LLC	San Francisco	CA	DE	100.00	Sole Member	27-3650699	
BR Osprey Acquisition LLC	San Francisco	CA	DE	100.00	Sole Member	27-3009109	
ROF Cielo Investor LLC	San Francisco	CA	DE	100.00	Sole Member	46-0839489	
North County BRS Project, LLC	San Francisco	CA	DE	76.70	Member	32-0374654	
ROF Madison Member LLC	San Francisco	CA	DE	100.00	Sole Member	45-4493680	
Madison ROF Master Venture I, LLC	San Francisco	CA	DE	90.00	Member	38-3857396	
Chesterbrook Manor, LLC	San Francisco	CA	DE	100.00	Sole Member	61-1665457	
ROF SFH Member LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
Citinvest ROF Master Venture I LLC	San Francisco	CA	DE	95.00	Member	N/A	
Citinvest ROF Borrower LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-H LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-I LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-J LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-K LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-L LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-M LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-N LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-O LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-P LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-Q LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-R LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-S LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-T LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-U LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
ROF Home Purchase LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-A LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-B LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-C LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
SFR Investments SoCal-G LLC	San Francisco	CA	DE	100.00	Sole Member	N/A	
BlackRock Strategic Investors GP, LLC	New York	NY	DE	100.00	Sole Member	N/A	
BlackRock Strategic Investors LP	New York	NY	DE		General Partner	46-2846533	
BlackRock AP Investment Holdco II (ESC), LLC	New York	NY	DE	100.00	Sole Member	46-2846533	
BlackRock iWisdom Holdings, LLC	New York	NY	DE	100.00	Sole Member	46-2846533	
BlackRock PC Holdings, LLC	New York	NY	DE	100.00	Sole Member	46-2846533	
BlackRock Regent Holdings, LLC	New York	NY	DE	100.00	Sole Member	46-2846533	
BlackRock Resolution Holdings, LLC	New York	NY	DE	100.00	Sole Member	46-2846533	
BlackRock Symphony Holdings, LLC	New York	NY	DE	100.00	Sole Member	46-2846533	
BLK CCF LLC	New York	NY	DE	100.00	Sole Member	N/A	

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Facultas Fund (GenPar), LLC	New York	NY	DE		Managing Member	13-3806691	
Facultas Fund, L.P.	New York	NY	DE		General Partner	46-3256587	549300Q8NO05GOS30Y67
GP Special Situations Co-Investment Fund (GenPar), LLC	Seattle	WA	DE	100 00	Sole Member	13-3806691	
HLX Financial Holdings, LLC	Wilmington	DE	DE	100 00	Sole Member	27-1544636	
Magnetite CLO Warehouse Fund (GenPar), LLC	New York	NY	DE	100 00	Sole Member	13-3806691	
Magnetite CLO Warehouse Fund, L.P.	New York	NY	Cayman Islands		General Partner	98-1137109	549300ZV2XNOTNXXK3L59
Orange 2015 DisloCredit Fund (GenPar), LLC	Seattle	WA	DE	100 00	Sole Member	13-3806691	
Project Edison Partners Fund (GenPar), LLC	New York	NY	DE	100 00	Sole Member	13-3806691	
Project Edison Partners Fund, L.P.	New York	NY	DE		General Partner	47-3184706	
Project Finale Co-Investment Fund (GenPar), LLC	New York	NY	DE	100 00	Sole Member	13-3806691	
Project Finale Co-Investment Fund, L.P.	New York	NY	DE		General Partner	47-2870615	
Project Finale Co-Investment Fund (Offshore), L.P.	New York	NY	Cayman Islands		General Partner	98-1223454	
Project Finale Co-Investment Fund Holdings, LLC	New York	NY	DE		Managing Member	47-3002791	
Project Glow Co-Investment Fund (GenPar), LLC	New York	NY	DE		Managing Member	13-3806691	
Project Glow Co-Investment Fund, L.P.	New York	NY	Cayman Islands		General Partner	98-1163261	
Project Tetl Investco (GenPar), LLC	New York	NY	DE	100 00	Sole Member	13-3806691	
Project Tetl Investco, L.P.	New York	NY	DE		General Partner	47-3401692	
Tetl Cooperatief U.A.	New York	NY	Netherlands		Managing Member	98-1244083	
Tetl North B.V.	New York	NY	Netherlands	100 00	Sole Member	98-1244273	
Tetl South B.V.	New York	NY	Netherlands	100 00	Sole Member	98-1244271	
Tetl Sur, S.A. de C.V., SOFOM, E.N.R.	New York	NY	Mexico	46 10	Member	N/A	
RPG Finale Investco, LLC	New York	NY	DE		Managing Member	47-2954331	
Special Credit Opportunities (GenPar) Holdings, L.P.	New York	NY	DE		General Partner	13-3806691	
MSR Special (GenPar) LLC	New York	NY	DE		Managing Member	46-5369476	
MSR Special, LP	New York	NY	Cayman Islands		General Partner	98-1086161	
Special Credit Opportunities (GenPar) LLC	New York	NY	DE		Managing Member	46-5369476	
Special Credit Opportunities, L.P. - Series A	New York	NY	DE		General Partner	46-1745067	549300MBN5KR1JKJHR52
Special Credit Opportunities, L.P. - Series B	New York	NY	DE		General Partner	46-3624752	549300LXHRL7MTUR7T44
Special Credit Opportunities, L.P. - Series C	New York	NY	DE		General Partner	46-4409000	549300WVICXHX662Y189
Special Credit Opportunities (Offshore), L.P.	New York	NY	Cayman Islands		General Partner	98-1081330	
Special Credit Opportunities (Offshore) Master, L.P.	New York	NY	Cayman Islands		General Partner	98-1079458	5493002JO2553QG9QU26
Special Credit Opportunities (Parallel) (GenPar) II LLC	New York	NY	DE		Managing Member	46-5369476	
Special Credit Opportunities (Parallel) II, L.P.	New York	NY	Cayman Islands		General Partner	98-1078889	549300T4OUIPLD2VN609
Special Credit Opportunities (Parallel) (GenPar) IV LLC	New York	NY	DE		Managing Member	46-5369476	
Special Credit Opportunities (Parallel) IV, L.P.	New York	NY	Cayman Islands		General Partner	98-1080813	
Special Credit Opportunities (Parallel) Master IV, L.P.	New York	NY	Cayman Islands		General Partner	98-1087844	549300L5D8ZGLH0N544
Special Credit Opportunities (Parallel) (GenPar) V LLC	New York	NY	DE		Managing Member	46-5369476	
Special Credit Opportunities (Parallel) V, L.P.	New York	NY	Cayman Islands		General Partner	98-1123262	
BlackRock Index Services, LLC	New York	NY	DE	100 00	Sole Member	20-1908498	
Red River Direct Investment Fund, L.P.	Plainsboro	NJ	DE	1 00	Limited Partner	27-0752096	
Athena Co-Invest Cayman Ltd	Plainsboro	NJ	Cayman Islands	28 40		98-1067598	
Tndent Merger, LLC	Wilmington	DE	DE	100 00	Sole Member	20-8343714	
BlackRock Investment Management, LLC	Plainsboro	NJ	DE	100 00	Sole Member	20-5319476	5493006MRTEZZ4S4CQ20
Portfolio Administration & Management Ltd.	Georgetown	Cayman Islands	Cayman Islands	100.00		52-2252162	
ASP IV Holdings, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0626903	
Div PEP IV Offshore Holdings, L.P.	Plainsboro	NJ	Cayman Islands	23 00	Limited Partner	98-0626899	
Elevate PEP Offshore, LLC	Plainsboro	NJ	DE	67 20	Member	46-2914076	
Asset Management Private Equity, LP	Plainsboro	NJ	DE		General Partner	06-1587418	
AMPELP Holdings LLC	Plainsboro	NJ	DE	100 00	Sole Member	N/A	
BlackRock Diversified Private Equity Alchemy Holdings, LP	Plainsboro	NJ	DE		General Partner	52-2366076	
AVP Liberty Co-Investment, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0459443	
BD Passage III Holdings, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0515301	
BlackRock-SBC Fund Investments, LLC	Plainsboro	NJ	DE		Managing Member	26-4332812	
BlackRock Aladdin Co-Invest (PEP/SONJ), LLC	Plainsboro	NJ	DE		Managing Member	01-0903976	
BlackRock Bstone Co-Invest II, LLC	Plainsboro	NJ	DE		Managing Member	27-1329428	
BlackRock Bstone Co-Invest (PEP III/SONJ), LLC	Plainsboro	NJ	DE		Managing Member	36-4614995	
BlackRock FFL II-JT (B), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0601446	
BlackRock Focus Holdings, LLC	Plainsboro	NJ	DE		Managing Member	02-0793108	
BlackRock PE Select Fund I, LP	Plainsboro	NJ	DE		General Partner	45-0552952	
BlackRock PE Select Fund I (GP), LLC	Plainsboro	NJ	DE	100 00	Sole Member	45-0552957	
BlackRock Private Equity Select Fund I, LP	Plainsboro	NJ	DE		General Partner	42-1693881	
BlackRock PE Select Holdings I, LLC	Plainsboro	NJ	DE		Managing Member	20-3211310	
BlackRock PE Select Fund II, LP	Plainsboro	NJ	DE		General Partner	01-0878568	
BlackRock PE Select Fund II (GP), LLC	Plainsboro	NJ	DE	100 00	Sole Member	14-1991118	
BlackRock Private Equity Select Fund II, LP	Plainsboro	NJ	DE		General Partner	01-0878569	
BlackRock PE Select Holdings II, LLC	Plainsboro	NJ	DE		Managing Member	45-0547713	
BlackRock PEP Master Carry, L.P. - AFA Series	Plainsboro	NJ	DE		General Partner	45-4481472	
BR Co-Investment Alfa Beta GP LLC	Plainsboro	NJ	DE		Managing Member	32-0368950	
BR Co-Investment Alfa I, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038476	5493002ETQYKQ7EH7164
BR Co-Investment Beta I, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038480	549300RJIJHANDQ7J441
BR Co-Investment Alfa I Feeder, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038477	549300OER26HU3PVGR13
BR Co-Investment Alfa I, LP	Plainsboro	NJ	Cayman Islands	99 93	Limited Partner	98-1038476	5493002ETQYKQ7EH7164
BR Co-Investment Beta I Feeder, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038483	5493000TE2EMU8ZVE343
BR Co-Investment Beta I, LP	Plainsboro	NJ	Cayman Islands	99 93	Limited Partner	98-1038480	549300RJIJHANDQ7J441
BlackRock PEP Master Carry, L.P. - BR/AK Series	Plainsboro	NJ	DE		General Partner	46-4755793	
BlackRock Private Equity AK, LLC	Plainsboro	NJ	DE		Sole Member	35-2494876	
AK Private Equity Co-Investment, L.P.	Plainsboro	NJ	DE		General Partner	32-0432980	
BlackRock PEP Master Carry, L.P. - BR/ERB II Series	Plainsboro	NJ	DE		General Partner	37-1732406	
BlackRock Private Equity NM II, LLC	Plainsboro	NJ	DE		Managing Member	30-0783897	
BR/ERB Co-Investment Fund II, L.P.	Plainsboro	NJ	DE		General Partner	46-2811035	
BlackRock PEP Master Carry, L.P. - BR_FV Series	Plainsboro	NJ	DE		General Partner	47-3708517	
FV GP, LLC	Plainsboro	NJ	DE		Managing Member	47-3701823	
FV Fund, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1240216	

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FV Feeder, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1240060	
BlackRock PEP Master Carry, L.P. - BR/NHRS Series	Plainsboro	NJ	DE		General Partner	47-2522056	
BlackRock NHRS GP, LLC	Plainsboro	NJ	DE	100.00	Sole Member	47-2522224	
NHRS Private Opportunities Fund, L.P.	Plainsboro	NJ	DE		General Partner	47-2522317	
BlackRock PEP Master Carry, L.P. - BR/OV Series	Plainsboro	NJ	DE		General Partner	47-2482792	
BR/OV GP, LLC	Plainsboro	NJ	DE		Managing Member	47-2482998	
OV Private Opportunities, L.P.	Plainsboro	NJ	DE		General Partner	47-2483220	
BlackRock PEP Master Carry, L.P. - BR/WY Series	Plainsboro	NJ	DE		General Partner	46-4963279	
BlackRock Private Equity WY, LLC	Plainsboro	NJ	DE		Managing Member	36-4780066	
WY Investment Fund, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1162620	
WY Investment Feeder, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1171119	
BlackRock PEP Master Carry, L.P. - comPlan Series	Plainsboro	NJ	DE		General Partner	47-1382035	
BlackRock PEP Master Carry, L.P. - DivPEP V Series	Plainsboro	NJ	DE		General Partner	45-5070771	
BlackRock PEP Master Carry, L.P. - ELPT Series	Plainsboro	NJ	DE		General Partner	46-4992813	
BlackRock ELPT GP, LLC	Plainsboro	NJ	DE		Managing Member	36-4780246	
The Equity-Broadway League Private Equity Fund I, L.P.	Plainsboro	NJ	DE		General Partner	37-1751942	
The Equity-Broadway League Private Equity Fund I Blocker Ltd	Plainsboro	NJ	Cayman Islands	100.00		98-1179515	
BlackRock PEP Master Carry, L.P. - ERB Series	Plainsboro	NJ	DE		General Partner	46-4932954	
BlackRock Private Equity ERB GP, LLC	Plainsboro	NJ	DE		Managing Member	61-1731987	
ERB Tactical Opportunities Fund, L.P.	Plainsboro	NJ	DE		General Partner	35-2497104	
BR/ERB Tactical Opportunities Cayman, Ltd	Plainsboro	NJ	Cayman Islands	100.00		98-1165411	
BlackRock PEP Master Carry, L.P. - High Rock Series	Plainsboro	NJ	DE		General Partner	47-4044740	
High Rock GP, LLC	Plainsboro	NJ	DE	100.00	Sole Member	47-4062232	
High Rock Direct Fund, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1245403	
HRD (Cayman) B, Ltd	Plainsboro	NJ	Cayman Islands	100.00	Sole Member	98-1266003	
High Rock Feeder, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1245408	
High Rock Master, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1245579	
HRM (Cayman) B, Ltd	Plainsboro	NJ	Cayman Islands	100.00		98-1249699	
BlackRock PEP Master Carry, L.P. - Orange PEP Series	Plainsboro	NJ	DE		General Partner	47-4277493	
Orange PEP GP, LLC	Plainsboro	NJ	DE		Managing Member	47-4277493	
Orange PEP Fund, L.P.	Plainsboro	NJ	DE		General Partner	47-4290921	
BlackRock PEP Master Carry, L.P. - PEP I Series	Plainsboro	NJ	DE		General Partner	47-3270936	
PEP I GP, LLC	Plainsboro	NJ	DE		Managing Member	47-3271074	
PEP SR I Umbrella, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1228205	
BlackRock PEP Master Carry, L.P. - POF III Series	Plainsboro	NJ	DE		General Partner	46-2975426	
BlackRock POF III (GP), LLC	Plainsboro	NJ	DE		Managing Member	38-3910869	
BlackRock Private Opportunities Fund III (Cayman), LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1157279	
BlackRock Private Opportunities Fund III (Delaware), LP	Plainsboro	NJ	DE		General Partner	47-2314951	
BlackRock Private Opportunities Fund III, L.P.	Plainsboro	NJ	DE		General Partner	35-2480635	
POF III Cayman Master Fund, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1157282	
BlackRock PEP Master Carry, L.P. - Red River II Series	Plainsboro	NJ	DE		General Partner	45-5610430	
Red River Private Equity II, LLC	Plainsboro	NJ	DE	100.00	Sole Member	80-0831883	
Red River Direct Investment Fund II, L.P.	Plainsboro	NJ	DE		General Partner	80-0831784	
Avantha Cayman Co-Invest, Ltd.	Plainsboro	NJ	Cayman Islands	57.52		98-1130925	
BlackRock PEP Master Carry, L.P. - Red River III Series	Plainsboro	NJ	DE		General Partner	47-3827945	
Red River Private Equity III, LLC	Plainsboro	NJ	DE		Managing Member	47-3815766	
Red River Direct Investment Fund III, L.P.	Plainsboro	NJ	DE		General Partner	47-3815766	
BlackRock PEP Master Carry, L.P. - Special Opportunities Series	Plainsboro	NJ	DE		General Partner	45-5067210	
BlackRock Special Opportunities GP, LLC	Plainsboro	NJ	DE	100.00	Sole Member	90-0837674	
BlackRock PEP Master Carry, L.P. - Tango Capital Opportunities Series	Plainsboro	NJ	DE		General Partner	47-4464247	
Tango Capital Opportunities GP, LLC	Plainsboro	NJ	DE		Managing Member	47-4466073	
Tango Capital Opportunities, L.P.	Plainsboro	NJ	DE		General Partner	47-4475865	
BlackRock PEP Master Carry, L.P. - Tellico Series I	Plainsboro	NJ	DE		General Partner	47-1990093	
PEP Tellico Investments GP I, LLC	Plainsboro	NJ	DE		Managing Member	47-1990216	
BlackRock POF I, LLC	Plainsboro	NJ	DE		Managing Member	N/A	
BlackRock POF I, LP	Plainsboro	NJ	DE		General Partner	06-1795330	
The BlackRock Private Opportunities Fund, LP	Plainsboro	NJ	DE		General Partner	30-0260525	
The Passage Private Opportunities Fund, LP	Plainsboro	NJ	DE		General Partner	32-0120832	
BlackRock POF II, LLC	Plainsboro	NJ	DE		Managing Member	N/A	
BlackRock POF II (GP), LP	Plainsboro	NJ	DE		General Partner	32-0187200	
The BlackRock Private Opportunities Fund II, LP	Plainsboro	NJ	DE		General Partner	61-1513984	
BlackRock DivPEP Caiman Holdings, LLC	Plainsboro	NJ	DE	26.98	Member	27-3008722	
BlackRock Private Equity Cayman Blocker IV, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0626907	
ASP IV Holdings, L.P.	Plainsboro	NJ	Cayman Islands	100.00	Limited Partner	98-0626903	
Div PEP IV Offshore Holdings, L.P.	Plainsboro	NJ	Cayman Islands	23.00	Limited Partner	98-0626899	
Elevate PEP Offshore, LLC	Plainsboro	NJ	DE	67.20	Member	46-2914076	
VSP IV Holdings, L.P.	Plainsboro	NJ	Cayman Islands	100.00	Limited Partner	98-0626905	
Div PEP IV Offshore Holdings, L.P.	Plainsboro	NJ	Cayman Islands	77.00	Limited Partner	98-0626899	
Elevate PEP Offshore, LLC	Plainsboro	NJ	DE	67.20	Member	46-2914076	
BlackRock Private Equity Holdings III (Cayman), LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0499104	
BlackRock Private Equity II, LP	Plainsboro	NJ	DE		General Partner	20-1104369	
BlackRock Div PEP II, LLC	Plainsboro	NJ	DE		Managing Member	01-0675386	
Arthur Street Fund II, LP	Plainsboro	NJ	DE		General Partner	11-3657979	
Arthur Street Portfolio II, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0382415	
BlackRock English/Irish Holdings (ASP) LLC	Plainsboro	NJ	DE		Managing Member	N/A	
DivPEP II Holdings, Inc.	Plainsboro	NJ	Cayman Islands	50.00		98-0644870	
BlackRock Private Equity Holdings II, LP	Plainsboro	NJ	DE		General Partner	05-0538045	
BlackRock Private Equity Holdings II-B, LP	Plainsboro	NJ	Cayman Islands		General Partner	20-4616896	
Passage Portfolio II, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0372396	
BlackRock English/Irish Holdings (PAS) LLC	Plainsboro	NJ	DE		Managing Member	N/A	
Vesey Street Fund II, LP	Plainsboro	NJ	DE		General Partner	11-3657917	
Vesey Street Portfolio II, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0382414	
BlackRock English/Irish Holdings (VSP) LLC	Plainsboro	NJ	DE		Managing Member	N/A	

The PNC Financial Services Group, Inc.
Organization Chart - Company and Location of BlackRock, Inc. entities
December 31, 2015

Entity	City	State/ Country	Incorporated	%	Remarks	Tax ID #	LEI (if applicable)
BlackRock Providence V Holdings, Ltd.	Plainsboro	NJ	Cayman Islands	66.70		N/A	
BlackRock Providence V Holdings (Cayman), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	N/A	
DivPEP II Holdings, Inc.	Plainsboro	NJ	Cayman Islands	50.00		98-0644870	
BlackRock Private Equity III, LP	Plainsboro	NJ	DE		General Partner	81-0664173	
BlackRock Div PEP III, LLC	Plainsboro	NJ	DE		Managing Member	03-0557767	
Arthur Street Fund III, L.P.	Plainsboro	NJ	DE		General Partner	98-0472708	
Arthur Street Portfolio III, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0461364	
BlackRock Private Equity Holdings III, LLC	Plainsboro	NJ	DE		Managing Member	76-0784972	
Div PEP Collector Vehicle I, LLC	Plainsboro	NJ	DE		Managing Member	20-4937072	
Fulton Street Fund, LP	Plainsboro	NJ	DE		General Partner	11-3751683	
Passage Portfolio III, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0451257	
Passage III English-Irish Holdings Ltd.	Plainsboro	NJ	Cayman Islands	100.00		20-4993234	
SONJ Private Opportunities Fund, LP	Plainsboro	NJ	DE		General Partner	38-3742922	
Vesey Street Employee Fund III, LP	Plainsboro	NJ	DE		General Partner	04-3843201	
Vesey Street Employee Fund III (B), LP	Plainsboro	NJ	DE		General Partner	33-1132673	
Vesey Street Fund III, LP	Plainsboro	NJ	DE		General Partner	86-1142356	
Vesey Street Fund III-B, LP	Plainsboro	NJ	DE		General Partner	43-2089085	
Vesey Street Fund III-B (Cayman), Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-1010472	
Vesey Street Fund III-C, LLC	Plainsboro	NJ	DE		Managing Member	43-2089086	
Vesey Street Fund III-D, LP	Plainsboro	NJ	DE		General Partner	43-2089087	
Vesey Street Fund III-E, LP	Plainsboro	NJ	DE		General Partner	43-2089088	
Vesey Street Fund III (ERISA), LP	Plainsboro	NJ	DE		General Partner	04-3843026	
Vesey Street Fund III (ERISA) CEI Holdings, Inc.	Plainsboro	NJ	DE	100.00		90-0352591	
Vesey Street Portfolio III, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0461366	
BlackRock Longchamp, LLC	Plainsboro	NJ	DE		Managing Member	N/A	
BlackRock Private Equity IV, LP	Plainsboro	NJ	DE		General Partner	75-3227230	
BlackRock Div PEP IV, LLC	Plainsboro	NJ	DE		Managing Member	75-3227231	
Arthur Street Fund IV, L.P.	Plainsboro	NJ	DE		General Partner	87-0811951	
BlackRock Private Equity Onshore Holdings IV, L.P.	Plainsboro	NJ	DE	60.00	Limited Partner	27-0406092	
Arthur Street Portfolio IV, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0549241	
ASP Holdings IV Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-0549241	
BlackRock Private Equity Cayman Blocker IV, L.P.	Plainsboro	NJ	Cayman Islands	23.00	Limited Partner	98-0626907	
(see listing of subsidiaries above on page 6 of 8)							
Div PEP IV Offshore English-Irish Holdings Ltd.	Plainsboro	NJ	Cayman Islands	23.00		98-0626902	
BlackRock Private Equity Holdings IV, LP	Plainsboro	NJ	DE		General Partner	75-3227232	
BlackRock PE Select Holdings III, LLC	Plainsboro	NJ	DE	100.00	Member	75-3239442	
BR PEP IV Secondary (DIV PEP IV/SBC) Holdings, LLC	Plainsboro	NJ	DE	28.43	Member	45-1204339	
BlackRock Private Equity Onshore Holdings IV, L.P.	Plainsboro	NJ	DE		General Partner	27-0406092	
Vesey Street Employee Fund IV, L.P.	Plainsboro	NJ	DE		General Partner	80-0240951	
Vesey Street Fund IV (ERISA), L.P.	Plainsboro	NJ	DE		General Partner	87-0811953	
Div PEP IV ERISA English-Irish Holdings, Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-0617396	
Spartan IV Vesey Street Fund IV (ERISA) LLC	Plainsboro	NJ	DE	100.00	Member	38-3889557	
Vesey Street Fund IV, L.P.	Plainsboro	NJ	DE		General Partner	87-0811952	
BlackRock Private Equity Onshore Holdings IV, L.P.	Plainsboro	NJ	DE	40.00	Limited Partner	27-0406092	
Vesey Street Portfolio IV, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0549242	
BlackRock Private Equity Cayman Blocker IV, L.P.	Plainsboro	NJ	Cayman Islands	77.00	Limited Partner	98-0626907	
(see listing of subsidiaries above on page 6 of 8)							
Div PEP IV Offshore English-Irish Holdings Ltd.	Plainsboro	NJ	Cayman Islands	77.00		98-0626902	
VSP Holdings IV Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-0549242	
BlackRock Private Equity NM Parent, L.P.	Plainsboro	NJ	DE		General Partner	80-0329950	
BlackRock Private Equity NM, LLC	Plainsboro	NJ	DE	100.00	Sole Member	N/A	
BR/ERB Co-Investment Fund, L.P.	Plainsboro	NJ	DE		General Partner	80-0329967	
BR/ERB NMERB Investments, LLC	Plainsboro	NJ	DE		Managing Member	27-3885005	
BlackRock Private Equity V, LP	Plainsboro	NJ	DE		General Partner	45-3170687	
BlackRock Div PEP V, LLC	Plainsboro	NJ	DE		Managing Member	45-3170828	
Vesey Street Fund V, LP	Plainsboro	NJ	DE		General Partner	80-0780297	
BlackRock VSF V Cayman, Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-1151743	
DivPEP V Offshore Holding Ltd.	Plainsboro	NJ	Cayman Islands	40.54		98-1094387	
Vesey Street Fund V (ERISA), L.P.	Plainsboro	NJ	DE		General Partner	32-0364366	
Spartan IV Vesey Street Fund V (ERISA) LLC	Plainsboro	NJ	DE	100.00	Member	61-1695797	
VSF (ERISA) V Cayman Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-1093538	
Vesey Street Fund (Cayman) V, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1017010	
BlackRock VSF (Cayman) V, Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-1151770	
DivPEP V Offshore Holding Ltd.	Plainsboro	NJ	Cayman Islands	42.74		98-1094387	
Vesey Street Portfolio V, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1017006	
BlackRock PEP V Investments Cayman, Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-1169482	
BlackRock Private Equity, LP	Plainsboro	NJ	DE		General Partner	06-1636667	
BlackRock Div PEP I, LLC	Plainsboro	NJ	DE		Managing Member	06-1637238	
Arthur Street Fund, LP	Plainsboro	NJ	DE		General Partner	06-1587419	
Arthur Street Portfolio, LP	Plainsboro	NJ	Cayman Islands		General Partner	52-2255320	
DivPEP I Holdings, Inc.	Plainsboro	NJ	Cayman Islands	50.00		98-0644866	
BlackRock TCV Holdings, LLC	Plainsboro	NJ	DE		Managing Member	03-0486316	
Passage Portfolio, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0341134	
BlackRock Private Equity Northern European Holdings LLC	Plainsboro	NJ	DE		Managing Member	N/A	
Vesey Street Employee Fund, LP	Plainsboro	NJ	DE		General Partner	06-1617797	
Vesey Street Fund, LP	Plainsboro	NJ	DE		General Partner	06-1587420	
Vesey Street Portfolio, LP	Plainsboro	NJ	Cayman Islands		General Partner	52-2255321	549300XVWJCKPZ7YET91
BlackRock SKM Holdings, Ltd.	Plainsboro	NJ	Cayman Islands	66.80		N/A	
BlackRock SKM Holdings, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	20-0372048	
DivPEP I Holdings, Inc.	Plainsboro	NJ	Cayman Islands	50.00		98-0644866	
BlackRock Private Opportunities Fund II (Cayman) LP	Plainsboro	NJ	Cayman Islands		General Partner	56-2645681	
BlackRock Special Opportunities Fund, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1049783	
BlackRock Vegas Co-Invest B (ERISA), LLC	Plainsboro	NJ	DE		Managing Member	41-2261611	

The PNC Financial Services Group, Inc.
Organization Chart - Company and Location of BlackRock, Inc. entities
December 31, 2015

Entity	City	State/ Country	Incorporated	%	Remarks	Tax ID #	LEI (if applicable)
BlackRock Vegas Co-Invest B, LLC	Plainsboro	NJ	DE		Managing Member	41-2261607	
BlackRock Vegas Co-Invest Series-B, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0621238	
BlackRock Vegas Co-Invest Series, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0562707	
BR/LG Investments L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1208150	
BR Co-Investment Alfa I, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038476	5493002ETQYKQ7E117164
BR Co-Investment Beta I, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038480	549300RIJIHANDQ7J441
BR Co-Investment Alfa I Feeder, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038477	549300OER26HU3PVGR13
BR Co-Investment Alfa I, LP	Plainsboro	NJ	Cayman Islands	99.93	Limited Partner	98-1038476	5493002ETQYKQ7E117164
BR Co-Investment Beta I Feeder, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1038483	5493000TE2EMU8ZVE343
BR Co-Investment Beta I, LP	Plainsboro	NJ	Cayman Islands	99.93	Limited Partner	98-1038480	549300RIJIHANDQ7J441
BR Co-Investments GP, Inc.	Plainsboro	NJ	DE	100.00		46-5675658	
BR Co-Investment, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	38-3927080	
BR Investors Juweel, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1172410	
Equity League (Cayman), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1183256	
BR Investments I (Cayman) Ltd	Plainsboro	NJ	Cayman Islands		Managing Member	98-0674690	
BR Investments I (Luxembourg) S a r l	Plainsboro	NJ	Luxembourg	100.00		98-0674695	
BR Investments II (Luxembourg) S a r l	Plainsboro	NJ	Cayman Islands	100.00		98-1117175	
BR Nightlight II, LLC	Plainsboro	NJ	DE		Managing Member	27-0384168	
BR PEP Rainforest Convest, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1206213	
BR PEP Rainforest Secondary, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1237281	
BR PEP Rainforest Secondary II, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1255157	
BVCG IV Private Equity Holdings, LLC	Plainsboro	NJ	DE	100.00	Sole Member	26-4330309	
CPL Investments GP, LLC	Plainsboro	NJ	DE		General Partner	47-1392334	
CPL PEP Investments, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1184855	
CPL Investments B, Ltd	Plainsboro	NJ	Cayman Islands	100.00		32-0451908	
CPL PEP Investments Feeder, LP	Plainsboro	NJ	Cayman Islands	100.00	Limited Partner	98-1185034	
Div PEP Holdings III (A), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0515304	
Div PEP Holdings III (A-L), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0515306	
Div PEP III A-L English Irish Holdings Ltd.	Plainsboro	NJ	Cayman Islands	100.00		98-0515588	
Div PEP Holdings III (B), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0515308	
Div PEP Holdings III (B-L), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0515310	
Div PEP III B-L English Irish Holdings Ltd	Plainsboro	NJ	Cayman Islands	100.00		98-0515590	
Div PEP Holdings III (CEI), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0573032	
Div PEP Holdings III (TowerCo), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0594945	
Div PEP IV/ERB (HF VII) Holdings, LLC	Plainsboro	NJ	DE		Managing Member	61-1679540	
Div PEP IV Oak Holdings, LLC	Plainsboro	NJ	DE		Managing Member	27-4398575	
Div PEP IV Offshore Holdings, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0626899	
Elevate PEP Offshore, LLC	Plainsboro	NJ	DE	67.20	Member	46-2914076	
Div PEP I Holdings, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0644874	
Laptop Co-Invest Cayman L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1244858	
PEP Tello Investments I, L.P.	Plainsboro	NJ	DE		General Partner	98-1198128	
Red River Private Equity Parent, L.P.	Plainsboro	NJ	DE		General Partner	27-0751990	
Red River Private Equity, LLC	Plainsboro	NJ	DE		Managing Member	27-0752051	
Red River Direct Investment Fund, LP	Plainsboro	NJ	DE		General Partner	27-0752096	
Athena Co-Invest Cayman Ltd.	Plainsboro	NJ	Cayman Islands	28.40		98-1067598	
SONJ POF II (GP Parent), L.P.	Plainsboro	NJ	DE		General Partner	27-1442228	
BlackRock SONJ II GP, LLC	Plainsboro	NJ	DE	100.00	Sole Member	N/A	
SONJ Private Opportunities Fund II, LP	Plainsboro	NJ	DE		General Partner	80-0140916	
Athena Co-Invest Cayman Ltd	Plainsboro	NJ	Cayman Islands	45.50		98-1067598	
BR Atlantis Co-Invest, LLC	Plainsboro	NJ	DE	30.57	Member	47-5115973	
BR Investments III (Cayman), L.P.	Plainsboro	NJ	Cayman Islands	41.70	Limited Partner	98-1136580	
MTI Co-Invest, LLC	Plainsboro	NJ	DE	45.32	Member	45-4077593	
SONJ Opportunities Cayman Ltd	Plainsboro	NJ	Cayman Islands	100.00		98-1007780	
SONJ Sidecar (GP Parent), L.P.	Plainsboro	NJ	DE		General Partner	27-1442305	
BlackRock Sidecar GP LLC	Plainsboro	NJ	DE	100.00	Sole Member	N/A	
Spartan IV DivPEP IV Offshore Holdings (Cayman), L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-1076203	
Vesey IV ERISA WPX Holdings, LLC	Plainsboro	NJ	DE		Managing Member	26-4580830	
Vesey Street Fund III (ERISA) Blocker, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0515313	
Vesey Street Fund IV (ERISA) Blocker, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-0563284	
Vesey Street Fund V (ERISA) Blocker, LP	Plainsboro	NJ	Cayman Islands		General Partner	98-1158895	
VSP IV Holdings, L.P.	Plainsboro	NJ	Cayman Islands		General Partner	98-0626905	
Div PEP IV Offshore Holdings, L.P.	Plainsboro	NJ	Cayman Islands	77.00	Limited Partner	98-0626899	
Elevate PEP Offshore, LLC	Plainsboro	NJ	DE	67.20	Member	46-2914076	
Xula, Inc.	San Francisco	CA	DE	100.00		90-0655808	

(C) This entity has 1 foreign branch (Luxembourg).

(D) This entity has 1 foreign branch (Dubai).

(E) This entity has 1 foreign branch (Dublin).

(F) This entity has 13 foreign branches (Amsterdam, Athens, Brussels, Cape Town, Copenhagen, Frankfurt, Madrid, Milan, Munich, Paris, Stockholm, Warsaw and Wien).

(G) This entity has 3 foreign branches (London, Sydney and Edinburgh).

(H) In addition to the 10.38% voting interest, BlackRock maintains two member seats on the Board of Directors.

APPENDIX II

Report Item 3(1): SECURITIES HOLDERS – The PNC Financial Services Group, Inc.

Shareholders of record who owned five percent or more of The PNC Financial Services Group, Inc. common stock and any class of voting preferred stock, as of December 31, 2015:

<u>Common</u>		
1.	*Cede & Co New York, NY 10274 USA	483,593,209 Shares 95.93%
<u>Preferred Series B</u>		
1.	*Cede & Co New York, NY 10274 USA	268 Shares 43.58%
2.	Anne J. Speicher Havertown, PA [REDACTED] USA	80 Shares 13.01%
3.	Betty Lou Adams Plantation, FL [REDACTED] USA	64 Shares 10.41%
4.	Barbara B. Althouse Cochranville, PA [REDACTED] USA	64 Shares 10.41%
5.	Barbara Scott Huston Chester Springs, PA [REDACTED] USA	48 Shares 7.81%
6.	Robert L. Petrosky Bristol, TN [REDACTED] USA	48 Shares 7.81%
7.	W. Andrew Terry Stafford, VA [REDACTED] USA	32 Shares 5.20%

*Cede & Co is nominee for Depository Trust Company

The following excerpt from the Proxy Statement dated March 15, 2016 lists each shareholder of record that directly or indirectly owns, controls with power to vote five percent or more of any class of voting securities of The PNC Financial Services Group, Inc.

Security ownership of certain beneficial owners

Based on a review, as of February 16, 2016, of Schedules 13D and 13G filed with the SEC, the following entities beneficially own more than five percent of our common stock. The numbers shown on the table below represent holdings as of December 31, 2015 provided in the Schedule 13G filed with the SEC and should be interpreted in light of the related footnotes.

Name and Address of Beneficial Owner	Amount and Nature of Beneficial Ownership	Percent of Class
BlackRock, Inc. 55 East 52nd Street New York, NY 10055	25,893,358 (1)	5.1%
The Vanguard Group, Inc. 100 Vanguard Blvd. Malvern, PA 19355	30,379,060 (2)	6.0%
Wellington Management Group LLP c/o Wellington Management Company LLP 280 Congress Street Boston, MA 02210	41,491,519 (3)	8.2%

(1) According to the Schedule 13G filed by BlackRock, Inc. with the SEC on January 28, 2016, BlackRock, Inc. and its subsidiaries have beneficial ownership of 25,893,358 shares of our common stock. BlackRock, Inc. reported (1) sole dispositive power with respect to 25,892,858 shares, (2) shared dispositive power with respect to 500 shares, (3) sole voting power with respect to 21,751,579 shares and (4) shared voting power with respect to 500 shares. BlackRock, Inc. is the beneficial owner of our common stock as a result of being a parent company or control person of the following subsidiaries, each of which holds less than 5% of the outstanding shares of common stock: BlackRock (Luxembourg) S.A.; BlackRock (Netherlands) B.V.; BlackRock Advisors (UK) Limited; BlackRock Advisors, LLC; BlackRock Asset Management Canada Limited; BlackRock Asset Management Ireland Limited; BlackRock Asset Management North Asia Limited; BlackRock Asset Management Schweiz AG; BlackRock Capital Management; BlackRock Financial Management, Inc.; BlackRock Fund Advisors; BlackRock Fund Managers Ltd; BlackRock Institutional Trust Company, N.A.; BlackRock International Limited; BlackRock Investment Management (Australia) Limited; BlackRock Investment Management (UK) Ltd; BlackRock Investment Management, LLC; BlackRock Japan Co Ltd; and BlackRock Life Limited.

(2) According to the Schedule 13G filed by The Vanguard Group, Inc. with the SEC on February 10, 2016, The Vanguard Group, Inc. has beneficial ownership of 30,379,060 shares of our common stock. The Vanguard Group, Inc. reported (1) sole dispositive power with respect to 29,378,323 shares, (2) shared dispositive power with respect to 1,000,737 shares, (3) sole voting power with respect to 945,024 shares and (4) shared voting power with respect to 51,300 shares. Vanguard Fiduciary Trust Company, a wholly-owned subsidiary of The Vanguard Group, Inc. is the beneficial owner of 788,997 shares or .15% of our common stock as a result of its serving as investment manager of collective trust accounts. Vanguard Investments Australia, Ltd., a wholly-owned subsidiary of The Vanguard Group, Inc. is the beneficial owner of 367,767 shares or .07% of our common stock as a result of its serving as investment manager of Australian investment offerings.

(3) According to the Schedule 13G filed by Wellington Management Group LLP with the SEC on February 11, 2016, Wellington Management Group LLP has beneficial ownership of 41,491,519 shares of our common stock which are held of record by clients of one or more investment advisors directly or indirectly owned by Wellington Management Group LLP. Wellington Management Group LLP shares dispositive power with respect to 41,491,519 shares of our common stock and shares voting power with respect to 19,521,771 shares of our common stock.

Report Item 3(2): SECURITIES HOLDERS – The PNC Financial Services Group, Inc.

To our knowledge, none. However, our response is limited because only certain SEC filings are required to be made by entities owning 5% or more during the year.

Report Item 3: SECURITIES HOLDERS – PNC Bancorp, Inc.

Shareholder of record who owned five percent or more of PNC Bancorp, Inc. common stock and any class of voting preferred stock, as of December 31, 2015:

Common

The PNC Financial Services Group, Inc. Pittsburgh, PA 15222 USA	1,000 Shares	100%
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12 4

APPENDIX III

**The PNC Financial Services Group, Inc.
As of December 31, 2015**

**Report Item 4: Insiders - Directors
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)**

Director William S. Demchak is listed in The PNC Financial Services Group, Inc. in the Executive Officer section.

(1) Names and Address (city, state, country)	(2) Principal Occupation, if other than with Bank Holding Company	(3)(a) Title or Position with Bank Holding Company	(3)(b) Title and Position with Subsidiaries	(3)(c) Title and Position with Other Businesses, in which the person is a Director, Trustee, Partner, or Executive Officer	(4)(a) Percentage of Voting Shares in Bank Holding Company	(4)(b) Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)	(4)(c) List names of other companies (includes partnerships) if 25% or more of voting securities are held
Charles E. Bunch Pittsburgh, Pennsylvania (USA)	Executive Chairman of PPG Industries, Inc.	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> ConocoPhillips Marathon Petroleum Corporation PPG Industries, Inc.	<i>Less than 1%</i>	None	See Confidential Appendix
Paul W. Chellgren Crescent Springs, Kentucky (USA)	Retired Chairman and Chief Executive Officer of Ashland, Inc., and Operating Partner of Snow Phipps, LLC.	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> Alan Cristea Gallery Corporex <u>Director and President of:</u> CHF Associates, Inc. <u>Partner of:</u> Snow Phipps, LLC <u>Limited Partner of:</u> CFKC Holdings Limited Partnership <u>Member of:</u> Buttermilk, LLC 5 North 5th Hotel, LLC Tucson Hotel, LLC	<i>Less than 1%</i>	None	See Confidential Appendix
Marjorie Rodgers Cheshire Baltimore, Maryland (USA)	President and Chief Operating Officer of A&R Development Corp.	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> Baltimore Equitable Society Insurance Company <u>President and Chief Operating Officer of:</u> A&R Management Inc. <u>Vice President and Secretary of:</u> William L. and Victorine Q. Adams Foundation, The <u>General Partner of:</u> Urban Group, The <u>Limited Partner of:</u> Orleans Patterson Square LP Redwood Apartments LLLP <u>Member of:</u> A&R/THC Marketplace LLC Balti-West 300, LLC CG Marketplace II LLC CG Marketplace LLC	<i>Less than 1%</i>	None	See Confidential Appendix

**The PNC Financial Services Group, Inc.
As of December 31, 2015**

Report Item 4: Insiders - Directors

(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

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Marjorie Rodgers Cheshire (cont.)				CVPR Consulting LLC CVPR Gaming Holdings LLC Randa Associates LLC Rodgers Legacy II LLC Rodgers Legacy LLC Symphony Centre LLC <u>Trustee of:</u> 2012 Anthony T. Rodgers Family Resource Trust 2012 Marjorie Rodgers Cheshire Family Resource Trust Baltimore School for the Arts Irrevocable Trust dated August 9, 1994 Johns Hopkins Bayview Medical Center Johns Hopkins Hospital Theo C. Rodgers Irrevocable Trust dated October 5, 1995			
Andrew T. Feldstein New York, New York (USA)	Chief Executive Officer and Co-Chief Investment Officer of BlueMountain Capital Management, LLC	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director, Member, Co-President, and Chief Investment Officer of:</u> Forward Vision, Inc. <u>Director and Vice President of:</u> Acumen Partnership, Inc., The (TAP) <u>Director of:</u> Alliance Partners BlueHorizon Fund I Ltd. BlueHorizon Fund II Ltd. BlueMountain Alpine Holdings Ltd. Blue Mountain CA Master Fund GP, Ltd. Blue Mountain Credit Alternatives Fund Ltd. BlueMountain Long/Short Credit Fund Ltd. BlueMountain Credit Opportunities Fund I Ltd. BlueMountain Distressed Fund Ltd. BlueMountain Equity Alternatives Fund Ltd. BlueMountain Long/Short Equity Fund Ltd. BlueMountain Strategic Credit Fund Ltd.	Less than 1%	None	See Confidential Appendix

The PNC Financial Services Group, Inc.
As of December 31, 2015

Report Item 4: Insiders - Directors
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

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Andrew T. Feldstein (cont.)				BlueMountain Timberline Ltd. BlueMountain Timberline Offshore Ltd. BlueMountain-GRF Fund Ltd. <u>Managing Member, Managing Partner, Chief Executive Officer and Chief Information Officer of:</u> BlueMountain GP Holdings, LLC <u>Member of Board of Managers of:</u> Alliance Funding I, LLC Alliance Funding II, LLC Blue Mountain Credit GP, LLC BlueMountain Credit Opportunities GP I, LLC BlueMountain Distressed GP, LLC BlueMountain Equity GP, LLC BlueMountain GLS Funding, LLC BlueMountain Kicking Horse Fund GP, LLC BlueMountain Long/Short Credit GP, LLC BlueMountain Long/Short Equity GP, LLC BlueMountain Strategic Credit GP, LLC BlueMountain Summit Opportunities GP II, LLC BlueMountain Timberline Onshore, LLC BlueMountain-GRF GP, LLC <u>Member of Board of General Partner of:</u> Blue Mountain Credit Alternatives Fund L.P. Blue Mountain Credit Alternatives Master Fund L.P. BlueMountain Credit Opportunities Fund I L.P. BlueMountain Credit Opportunities Master Fund I L.P. BlueMountain Distressed Fund L.P. BlueMountain Distressed Master Fund L.P. BlueMountain Equity Alternatives Fund L.P.			

**The PNC Financial Services Group, Inc.
As of December 31, 2015**

**Report Item 4: Insiders - Directors
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)**

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Andrew T. Feldstein (cont.)				BlueMountain Equity Alternatives Master Fund L.P. BlueMountain Guadalupe Peak Fund L.P. BlueMountain Kicking Horse Fund L.P. BlueMountain Long/Short Credit Fund L.P. BlueMountain Long/Short Credit Master Fund L.P. BlueMountain Long/Short Equity Fund L.P. BlueMountain Long/Short Equity Master Fund L.P. BlueMountain Strategic Credit Master Fund L.P. BlueMountain Summit Opportunities Fund II (Cayman) L.P. BlueMountain Summit Opportunities Fund II (US) L.P. BlueMountain-GRF Master Fund L.P. <u>Trustee of:</u> Santa Fe Institute Third Way <u>Member of:</u> EJA Energy Harvard Law School Leadership Council J & A Tennis Juris Investments LLC Kek Hegy, LLC			
Kay Coles James Richmond, Virginia (USA)	President and Founder of Gloucester Institute (The)	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> Cancer Treatment Centers of America Magellan Health, Inc.	<i>Less than 1%</i>	None	N/A
Richard B. Kelson New York, New York (USA)	Chairman, President and Chief Executive Officer of ServCo LLC	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director and Member of:</u> Imagination Playgrounds LLC <u>Lead Director of:</u> Commercial Metals Company <u>Director of:</u> ANADIGICS, Inc.	<i>Less than 1%</i>	None	See Confidential Appendix

**The PNC Financial Services Group, Inc.
As of December 31, 2015**

Report Item 4: Insiders - Directors

(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

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Richard B. Kelson (cont.)				Ecovative Design LLC FloWorks <u>Board Member of:</u> Arrival Ready Inc. <u>President and Chief Executive Officer:</u> Sassu LLC ServCo Holdings LLC <u>Member of:</u> LED EFFECTS, LLC Regeneration Capital Group LLC SAI Fund 1 SAI LLC <u>Member of Board of Visitors of:</u> University of Pittsburgh School of Law			
Anthony A. Massaro Sarasota, Florida (USA)	Retired Chairman and Chief Executive Officer of Lincoln Electric Holdings, Inc.	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> Commercial Metals Company	<i>Less than 1%</i>	None	N/A
Jane G. Pepper Media, Pennsylvania (USA)	Retired President of Pennsylvania Horticultural Society	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> Natural Lands Trust <u>Vice President of:</u> Royal Horticultural Society, London <u>Trustee of:</u> Longwood Gardens, Inc. <u>Chair, Selections Committee of:</u> Eisenhower Exchange Fellowships Philadelphia International Leadership Initiative	<i>Less than 1%</i>	BlackRock <i>Less than 1%</i>	N/A
Donald J. Shepard Spring, Texas (USA)	Retired Chairman of the Executive Board and Chief Executive Officer of AEGON N.V.	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director and Non-Executive Chairman of:</u> AEGON U.S. Holding Corporation <u>Director of:</u> CSX Corporation National Chamber Foundation Policy Forum Endowment Fund Travelers Companies, Inc. (The)	<i>Less than 1%</i>	None	See Confidential Appendix

**The PNC Financial Services Group, Inc.
As of December 31, 2015**

**Report Item 4: Insiders - Directors
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)**

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Donald J. Shepard Spring, Texas (USA) (cont.)				U.S. Chamber of Commerce US Chamber of Commerce Foundation			
Lorene K. Steffes Brentwood, TN (USA)	Independent Business Advisor	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director and Recording Secretary of:</u> Nashville Catholic Women's League <u>Director of:</u> Tennessee Right to Life Inc.	<i>Less than 1%</i>	None	N/A
Dennis F. Strigl Princeton, New Jersey (USA)	Retired President and Chief Operating Officer of Verizon Communications Inc.	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director and Chairman of:</u> Smartiply, Inc. <u>Lead Director of:</u> ANADIGICS, Inc. <u>Adjunct Professor of:</u> Princeton University	<i>Less than 1%</i>	None	See Confidential Appendix
Thomas J. Usher Bonita Springs, Florida (USA)	Non-Executive Chairman of Marathon Petroleum Corporation	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> Marathon Petroleum Corporation PPG Industries, Inc. <u>Trustee of:</u> Dietrich Foundation (The) The Kiski School <u>Emeritus Trustee of:</u> University of Pittsburgh <u>President and Member of:</u> Laurel Valley Golf Club <u>Member of Board of Governors of:</u> Rolling Rock Club <u>Board of Visitors of:</u> University of Pittsburgh Swanson School of Engineering	<i>Less than 1%</i>	None	See Confidential Appendix
Gregory D. Wasson Lincolnshire, Illinois (USA)	Former President and Chief Executive Officer of Walgreens Boots Alliance, Inc.	Director	<u>Director of:</u> PNC Bank, N.A.	<u>Director of:</u> Health Care Service Corporation Verizon Communications Inc. <u>President of:</u> Wasson LLC <u>Member of:</u> Business Council (The)	<i>Less than 1%</i>	None	See Confidential Appendix

**The PNC Financial Services Group, Inc.
As of December 31, 2015**

**Report Item 4: Insiders - Directors
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)**

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Gregory D. Wasson Lincolnshire, Illinois (USA) (cont.)				CEO Perspectives Chicago Club Commercial Club of Chicago Economic Club of Chicago, The Executive Club of Chicago <u>Board Member of:</u> Museum of Science and Industry World Business Chicago			

The PNC Financial Services Group, Inc.
As of December 31, 2015

Report Item 4: Insiders - Executive Officers
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

(1) Names and Address (city, state, country)	(2) Principal Occupation, if other than with Bank Holding Company	(3)(a) Title or Position with Bank Holding Company	(3)(b) Title and Position with Subsidiaries	(3)(c) Title and Position with Other Businesses, in which the person is a Director, Trustee, Partner, or Executive Officer	(4)(a) Percentage of Voting Shares in Bank Holding Company	(4)(b) Percentage of Voting Shares in Subsidiaries - include names of subsidiaries	(4)(c) List names of other companies, if 25% or more of voting securities are held
William S. Demchak Pittsburgh, Pennsylvania (USA)	None	Director, Chairman, President and Chief Executive Officer	<u>Director, Chairman, President and Chief Executive Officer of:</u> PNC Bank, N.A. <u>Director of:</u> BlackRock, Inc.	<u>Director of:</u> Allegheny Conference on Community Development Boy Scouts of America (Greater Pittsburgh Council) Clearing House Payments Company, LLC (The) Extra Mile Education Foundation Financial Services Roundtable (The) Pittsburgh Cultural Trust YMCA of Pittsburgh	Less than 1%	None	N/A
Orlando C. Esposito Philadelphia, Pennsylvania (USA)	None	Executive Vice President and Head of Asset Management Group	<u>Executive Vice President and Head of Asset Management Group of:</u> PNC Bank, N.A. <u>Manager of:</u> PNC Capital Advisors, LLC	<u>Member of Corporate Executive Board of:</u> Philadelphia Museum of Art <u>Trustee of:</u> Philadelphia University United Way of Greater Philadelphia and Southern New Jersey Zoological Society of Philadelphia	Less than 1%	None	N/A
Joseph C. Guyaux Pittsburgh, Pennsylvania (USA)	None	Senior Vice Chairman	<u>Director and Senior Vice Chairman of:</u> PNC Bank, N.A. <u>Director of:</u> PNC Foundation <u>Chief Executive Officer and President of:</u> PNC Mortgage, a Division of PNC Bank, N.A.	<u>Director and Chairman of:</u> Duquesne Light Company Duquesne Light Holdings Inc. Civic Light Opera <u>Independent Manager and Chairman of:</u> DQE Holdings, LLC Duquesne Power, LLC <u>Director of:</u> Highmark Senior Resources, Inc. Keystone Health Plan West, Inc.	Less than 1%	None	N/A

*The information in Column (4)(a) is as of January 29, 2016, the record date for the 2016 Proxy Statement
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The PNC Financial Services Group, Inc.
As of December 31, 2015

Report Item 4: Insiders - Executive Officers
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

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Joseph C. Guyaux (cont.)				<u>Chairman of:</u> Highmark Health, Inc. <u>Board Member and Lead Director of:</u> Highmark Inc. <u>Member of:</u> Pittsburgh Cultural Trust <u>Trustee of:</u> Carnegie Museums of Pittsburgh <u>Emeritus Director of:</u> Duquesne University			
Neil F. Hall Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Head of Retail Banking	<u>Executive Vice President and Head of Retail Banking of:</u> PNC Bank, N.A. <u>Director of:</u> PNC Foundation	<u>Consumer Advisory Board Member of:</u> Consumer Financial Protection Bureau <u>Trustee of:</u> Xaverian High School	Less than 1%	None	N/A
Michael J. Hannon Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Chief Credit Officer	<u>Executive Vice President and Chief Credit Officer of:</u> PNC Bank, N.A. <u>Director of:</u> National City Equity Partners, Inc. PNC Equity Partners G.P. Holdings, Inc. PNC Equity Partners II G.P. Holdings, Inc. PNC Equity Partners L.P. Holdings, Inc. PNC Mezzanine Partners G.P. Holdings, Inc. PNC Mezzanine Partners L.P. Holdings, Inc. <u>Manager of:</u> PAGIC Equity, LLC PNC Capital Finance, LLC PNC Equities, LLC	<u>Director of:</u> Children's Institute (The) Regional Industrial Development Corp. (RIDC) Tamco, Inc. <u>Chairman and Trustee of:</u> Shady Side Academy	Less than 1%	None	N/A

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The PNC Financial Services Group, Inc.
As of December 31, 2015

Report Item 4: Insiders - Executive Officers
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

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Michael J. Hannon Pittsburgh, Pennsylvania (USA) (cont.)			PNC Investment Company LLC PNC Venture, LLC				
Vicki C. Henn Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Chief Human Resources Officer	<u>Executive Vice President and Chief Human Resources Officer of:</u> PNC Bank, N.A. <u>Director of:</u> PNC Foundation	None	Less than 1%	None	N/A
Gregory B. Jordan Pittsburgh, Pennsylvania (USA)	None	Executive Vice President, General Counsel and Head of Regulatory and Government Affairs	<u>Executive Vice President, General Counsel and Head of Regulatory and Government Affairs of:</u> PNC Bank, N.A. <u>Director of:</u> PNC Foundation	<u>Director of:</u> Extra Mile Education Foundation Global Business Coalition for Education Inc. Highmark Health Services Highmark Inc. Manchester Bidwell Corporation <u>Chairman of the Board of:</u> Bethany College	Less than 1%	None	N/A
Stacy M. Juchno Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and General Auditor	<u>Executive Vice President of:</u> PNC Bank, N.A.	None	Less than 1%	None	N/A
Gregory H. Kozich Pittsburgh, Pennsylvania (USA)	None	Senior Vice President and Controller	<u>Executive Vice President and Controller of:</u> PNC Bank, N.A.	None	Less than 1%	None	N/A
Karen L. Larrimer Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Chief Customer Officer	<u>Executive Vice President and Chief Customer Officer of:</u> PNC Bank, N.A. <u>Director of:</u> PNC Foundation	<u>Director, Member of Executive Committee and 2015 Campaign Chair of:</u> United Way of Allegheny County <u>Director and Member of Executive Committee of:</u> Children's Museum of Pittsburgh	Less than 1%	None	N/A

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The PNC Financial Services Group, Inc.
As of December 31, 2015

Report Item 4: Insiders - Executive Officers
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

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Karen L. Larrimer Pittsburgh, Pennsylvania (USA) (cont.)				<u>Director of:</u> Bank Administration Institute Goodwill of Southwestern PA <u>Trustee of:</u> Robert Morris University			
Michael P. Lyons Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Head of Corporate and Institutional Banking	<u>Executive Vice President and Head of Corporate and Institutional Banking of:</u> PNC Bank, N.A. <u>Manager and Chairman of:</u> Harris Williams LLC <u>Manager of:</u> PNC Capital Finance, LLC	<u>Director of:</u> Pittsburgh Parks Conservancy (The) <u>Trustee - Northeast Region and Member, Investment Committee of:</u> Boys and Girls Clubs of America (The)	Less than 1%	None	N/A
E William Parsley, III New York, NY (USA)	None	Executive Vice President, Treasurer and Chief Investment Officer	<u>Director, Executive Vice President and Treasurer of:</u> PNC Bank, N.A. <u>Director, Chairman and President of:</u> PNC Funding Corp <u>Manager, Chairman and President of:</u> PNC Equities, LLC PNC Investment Company LLC <u>Director and Chairman of:</u> PNC Equity Partners G.P. Holdings, Inc. PNC Equity Partners II G.P. Holdings, Inc. PNC Equity Partners L.P. Holdings, Inc. PNC Mezzanine Partners G.P. Holdings, Inc. PNC Mezzanine Partners L.P. Holdings, Inc. <u>Manager and Chairman of:</u> PAGIC Equity, LLC PNC Capital Finance, LLC	<u>Director of:</u> Boys & Girls Clubs of Pittsfield <u>Manager of:</u> MWP Holdings LLC	Less than 1%	None	See Confidential Appendix

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The PNC Financial Services Group, Inc.
As of December 31, 2015

Report Item 4: Insiders - Executive Officers
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

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E William Parsley, III New York, NY (USA) (cont.)			PNC Capital Markets LLC PNC Venture, LLC <u>Director of:</u> National City Equity Partners, Inc.				
Robert Q. Reilly Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Chief Financial Officer	<u>Executive Vice President and Chief Financial Officer of:</u> PNC Bank, N.A. <u>Manager, Chairman and President of:</u> PNC Holding, LLC <u>Director of:</u> PNC Bancorp, Inc. PNC Foundation PNC Funding Corp <u>President of:</u> PNC DC Assets, LLC PNC DC Holding, Inc.	<u>Director of:</u> Pittsburgh Symphony, Inc. RAF Partners <u>Member of:</u> Delaware Valley Community Reinvestment Fund, Investment Committee	Less than 1%	None	N/A
Joseph E. Rockey Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Chief Risk Officer	<u>Executive Vice President, Chief Risk Officer and Derivatives Chief Compliance Officer of:</u> PNC Bank, N.A.	<u>Director of:</u> Oakland Catholic High School Inc. Ronald McDonald House Charities of Pittsburgh <u>Board Member of:</u> Duquesne University <u>Advisory Board Member of:</u> Little Sisters of the Poor of the State of Pennsylvania	Less than 1%	None	N/A
Steven C. Van Wyk Pittsburgh, Pennsylvania (USA)	None	Executive Vice President and Head of Technology and Operations	<u>Executive Vice President and Head of Technology and Operations of:</u> PNC Bank, N.A.	<u>Chairman of:</u> Banking Industry Architecture Network	Less than 1%	None	N/A

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PNC BANCORP, INC.
As of December 31, 2015

Report Item 4: Insiders - Directors and Executive Officers
(1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)

Robert Q. Reilly, Director of PNC Bancorp, Inc. is listed in The PNC Financial Services Group, Inc. in the Executive Officer section.

(1) Names and Address (city, state, country)	(2) Principal Occupation, if other than with Bank Holding Company	(3)(a) Title or Position with Bank Holding Company	(3)(b) Title and Position with Subsidiaries	(3)(c) Title and Position with Other Businesses, in which the person is a Director, Trustee, Partner, or Executive Officer	(4)(a) Percentage of Voting Shares in Bank Holding Company	(4)(b) Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)	(4)(c) List names of other companies, if 25% or more of voting securities are held
Nicholas M. Marsini, Jr. Wilmington, Delaware (USA)	Senior Vice President, PNC Bank, N.A.	None	<u>Director, Chairman and President of:</u> PNC Bancorp, Inc. PNC NCNVINV, Inc. <u>Director and President of:</u> PNC REIT Holdings, Inc. <u>Director and Executive Vice President of:</u> PNC Bank International <u>Director of:</u> PNC Equity Partners G.P. Holdings, Inc. PNC Equity Partners II G. P. Holdings, Inc. PNC Equity Partners L.P. Holdings, Inc. PNC Mezzanine Partners G.P. Holdings, Inc. PNC Mezzanine Partners L.P. Holdings, Inc. PNC REIT Corp. <u>Manager of:</u> PAGIC Equity, LLC PNC Bank Capital Securities, LLC PNC Equities, LLC PNC Holding, LLC PNC Investment Company LLC PNC Preferred Funding LLC PNC Venture, LLC <u>Senior Vice President of:</u> PNC Bank, N.A.	<u>Director of:</u> Grand Opera House, Inc. <u>Trustee of:</u> Christiana Care Corporation Delaware Business Roundtable, Inc. (The) Delaware State Chamber of Commerce Salesianum School, Inc. United Way of Delaware	Less than 1%	None	N/A