

Board of Governors of the Federal Reserve System



Annual Report of Holding Companies—FR Y-6

672
 4/5/16

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.

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

December 31, 2015

Month / Day / Year

006XD7BJ4EPXNABVFN69

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

Reporter's Name, Street, and Mailing Address

Teachers Insurance and Annuity Association

Legal Title of Holding Company

730 Third Avenue

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

New York

NY

10017

City

State

Zip Code

Physical Location (if different from mailing address)

Person to whom questions about this report should be directed:

Moshe Klagsbrun

Senior Director

Name

Title

212-913-7757

Area Code / Phone Number / Extension

212-916-4966

Area Code / FAX Number

mklagsbrun@tiaa.org

E-mail Address

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:

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

I, Roger W. Ferguson

Name of the Holding Company Director and Official

President & 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.

Roger W. Ferguson, Jr.

Signature of Holding Company Director and Official

03/29/16

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 3792687
 C.I. _____

Entity Name	State	Registered Office	Legal Entity Number	LLC or Partnership Status	Member Name	Ownership %
258 DNT DCA	Brazil	Sao Paulo, SP Brazil 04543		General Partner / Managing Member	Janus Brazil Participacoes, SA	100%
259 One Hermetic, LLC	CA	Sacramento County, CA		General Partner / Managing Member	Silverado Wringstrom, LLC	100%
260 OPC Holding, LLC	DE	New York, NY	54830024PRVC10PS1052	General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	21%
261 Owan Investments, LLC	DE	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
262 David Hills Apartments, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member	Class Partners III, L.P.	100%
263 Dabida Chemical (Eduy Gaiwer)	DE	Los Angeles, CA		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
264 DMM Inclusive Finance Equity Fund II	DE	Luxembourg		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
265 DMM INCLUSIVE FINANCE EQUITY FUND I	DE	Luxembourg		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
266 Easy Investments SP 2.0.0	Poland	Warsaw, Poland 00-432		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	40%
267 Eto Topica SP 2.0.0	Poland	Kyzyki, Poland 02-500		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
268 Emerald Investments SP 2.0.0	Poland	Warsaw, Poland 00-432		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
269 EMG AE Partner Co-Investment, L.P.	DE	Delaware, DE		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
270 EMG AE, Etoia Co-Investment, LP	DE	Delaware, DE		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
271 EMO Investments, LLC	DE	Houston, TX		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
272 Energy Power Investment Company, LLC	DE	Allentown, PA 18104		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
273 Enhanced Debt Carry (SP) Sml	DE	44 rue Henri M Schmitt, L-2530 Luxembourg		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
274 Enhanced Debt Carry SCSP	DE	44 rue Henri M Schmitt, L-2530 Luxembourg		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
275 Enhanced Holding Partners 1994, L.P	DE	Columbia, MD		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
276 ENTERPRISE MULTIFAMILY OPPORTUNITY FUND, LLC	DE	Columbia, MD		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	43%
277 ENTERPRISE MULTIFAMILY OPPORTUNITY FUND, LLC	DE	Columbia, MD		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
278 Energy Information Systems, LLC	DE	Itasca, NY 14850		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	49%
279 EPP UGI, LLC	DE	El Segundo, CA		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
280 EPP Renewable Energy, LLC	DE	Allentown, PA 18104		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
281 ERM Energy Services, LLC	DE	Essex, Germany		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	25%
282 ERM Energy Services, LLC	DE	Essex, Germany		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
283 ERM Energy Services, LLC	DE	Essex, Germany		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
284 ERM Energy Services, LLC	DE	Essex, Germany		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
285 ERM Energy Services, LLC	DE	Essex, Germany		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
286 ERM Energy Services, LLC	DE	Essex, Germany		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
287 ERM Energy Services, LLC	DE	Essex, Germany		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
288 EURL Olympe	France	Paris, France		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
289 EURL Olympe	France	Paris, France		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
290 European Chief Partnership (SP) S.a.r.l.	DE	44 rue Henri M Schmitt, L-2530 Luxembourg		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
291 Eschlinger Partners Holding, LLC	DE	Monterey, California 93940		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
292 Fallurus Capital Partners II, LP	DE	Charlotte, NC		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
293 FC 8 Spruce Street Residential, LLC	DE	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	49%
294 FC 8 Spruce Street Residential, LLC	NY	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
295 FCP-ASC Holding, LLC	DE	Charlotte, NC		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	25%
296 FCP-ASC Holding, LLC	DE	Charlotte, NC 28202		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
297 FIA Timber Growth Partners, LP	DE	Atlanta, GA	548300MANIPUDCMTFC82	General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
298 FIM Library Holdings, LLC	DE	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
299 Fym Restaurant Group LP	DE	San Francisco, CA		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
300 Foca Canyon Vineyard, LLC	CA	Monterey County, CA		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
301 Foca Canyon Vineyard, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
302 Foca Canyon Vineyard, LLC	DE	Chile		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
303 Foca Canyon Vineyard, LLC	DE	Chile		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
304 Foca Canyon Vineyard, LLC	DE	Chile		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
305 Foca Canyon Vineyard, LLC	DE	Chile		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
306 FORUM ASIAN REALTY INCOME II, LP	DE	Hartford, CT 06103	U008YCH05AM17HYHP12	General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
307 FORUM ASIAN REALTY INCOME II, LP	DE	Cayman Islands		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	89%
308 FORUM EUROPEAN REALTY INCOME II, LP	DE	Cayman Islands		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	30%
309 FORUM EUROPEAN REALTY INCOME II, LP	DE	Cayman Islands		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	99%
310 Frank Fund IV, LP	DE	Charlotte, NC 28204		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
311 Frank Fund IV, LP	DE	New York, NY 10022		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
312 Frank Fund IV, LP	DE	Portland, OR		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
313 Frank Fund IV, LP	DE	Urbancalle, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
314 Granite Club, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
315 Granite Club, LLC	DE	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
316 Granite Club, LLC	DE	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
317 Granite Club, LLC	DE	New York, NY 10017		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
318 Granite Club, LLC	DE	Charlotte, NC 28202		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
319 Granite Club, LLC	DE	Charlotte, NC 28202		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
320 Granite Club, LLC	DE	Vicenza, Australia 3000		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
321 Granite Club, LLC	DE	Vicenza, Australia 3000		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
322 Granite Club, LLC	DE	Vicenza, Australia 3000		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
323 Granite Club, LLC	DE	Champaign, IL 61820		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%

Entity	Entity Type	Entity Address	Entity Country	Entity Status	Entity Role	Entity Description	Entity Ownership
324	Global AG Pensions USA LLC	Channahon, IL 61630	DE	General Partner / Managing Member	Global AG Pensions USA LLC	100%	
325	Global AG Properties USA LLC	Channahon, IL	DE	General Partner / Managing Member	Global AG Properties USA LLC	100%	
326	Global AG Properties USA LLC	Channahon, IL	DE	General Partner / Managing Member	Global AG Properties USA LLC	100%	
327	Global AG US Corp.	Charlotte, NC 28282	DE	General Partner / Managing Member	Global AG US Corp.	100%	
328	Global Agriculture NY (CA) LP	Charlotte, NC	DE	General Partner / Managing Member	Global Agriculture NY (CA) LP	100%	
329	Global Agriculture NY (US) LLC	Charlotte, NC	DE	General Partner / Managing Member	Global Agriculture NY (US) LLC	100%	
330	Global Agriculture NY (US) LLC	Charlotte, NC	DE	General Partner / Managing Member	Global Agriculture NY (US) LLC	100%	
331	Global Agriculture NY (US) LLC	Charlotte, NC	DE	General Partner / Managing Member	Global Agriculture NY (US) LLC	100%	
332	Global Agriculture NY (US) LLC	Charlotte, NC	DE	General Partner / Managing Member	Global Agriculture NY (US) LLC	100%	
333	Global Agriculture NY (US) LP	Charlotte, NC 28282	DE	General Partner / Managing Member	Global Agriculture NY (US) LP	100%	
334	Global Investments GP IV, LLC	Charlotte, NC 28282	DE	General Partner / Managing Member	Global Investments GP IV, LLC	100%	
335	Global Investments GP IV, LLC	Charlotte, NC 28282	DE	General Partner / Managing Member	Global Investments GP IV, LLC	100%	
336	Global Investments GP IV, LLC	Charlotte, NC 28282	DE	General Partner / Managing Member	Global Investments GP IV, LLC	100%	
337	Global Investments GP IV, LLC	Charlotte, NC 28282	DE	General Partner / Managing Member	Global Investments GP IV, LLC	100%	
338	Global Timber International, LLC	Portland, OR 97201	DE	General Partner / Non-Managing Member	Global Timber International, LLC	100%	
339	Global Timber Int. B.V.	Teleportboulevard 140, 1043CJ Amsterdam	DE	General Partner / Managing Member	Global Timber Int. B.V.	100%	
340	Global Timber Resources Investor Fund LP	Portland, OR 97201	DE	General Partner / Managing Member	Global Timber Resources Investor Fund LP	100%	
341	Global Timber Resources LLC	Portland, OR 97201	DE	General Partner / Managing Member	Global Timber Resources LLC	100%	
342	Global Timber SA LLC	Portland, OR 97201	DE	General Partner / Non-Managing Member	Global Timber SA LLC	100%	
343	Global Timber Spain SA	Madrid 28002, Spain	DE	General Partner / Non-Managing Member	Global Timber Spain SA	100%	
344	Global Timber USA LP	Portland, OR 97201	DE	General Partner / Non-Managing Member	Global Timber USA LP	100%	
345	Global Timber USA LP	Portland, OR 97201	DE	General Partner / Non-Managing Member	Global Timber USA LP	100%	
346	Great Canal Shropshire Holdings, LLC	New York, NY	DE	General Partner / Non-Managing Member	Great Canal Shropshire Holdings, LLC	50%	
347	Great Western Petroleum, LLC	New York, NY	DE	General Partner / Non-Managing Member	Great Western Petroleum, LLC	50%	
348	Greenwood Resources Beijing Forestry Co.	Beijing, China	DE	General Partner / Managing Member	Greenwood Resources Beijing Forestry Co.	100%	
349	Greenwood Resources Brazil, Ltda.	Sao Paulo, Brazil 04592-030	DE	General Partner / Managing Member	Greenwood Resources Brazil, Ltda.	1%	
350	Greenwood Resources Brazil, Ltda.	Sao Paulo, Brazil 04 592-030	DE	General Partner / Managing Member	Greenwood Resources Brazil, Ltda.	1%	
351	Greenwood Resources Capital Management, LLC	Portland, OR 97201	DE	General Partner / Managing Member	Greenwood Resources Capital Management, LLC	100%	
352	Greenwood Resources Chile SA	Los Angeles, Chile	DE	General Partner / Managing Member	Greenwood Resources Chile SA	100%	
353	Greenwood Resources China Ltd (HK)	Hong Kong, China	DE	General Partner / Managing Member	Greenwood Resources China Ltd (HK)	100%	
354	Greenwood Resources Poland sp z o o	Katowice, Poland	DE	General Partner / Managing Member	Greenwood Resources Poland sp z o o	100%	
355	Greenwood Resources, Inc.	Portland, OR 97201	DE	General Partner / Managing Member	Greenwood Resources, Inc.	80%	
356	Greenwood Tree Farm Fund, LP	Portland, OR 97201	DE	General Partner / Non-Managing Member	Greenwood Tree Farm Fund, LP	1%	
357	Greenwood Tree Farm Fund, LP	Portland, OR 97201	DE	General Partner / Non-Managing Member	Greenwood Tree Farm Fund, LP	1%	
358	Greenham Asset Management LLC	New York, NY - USA -10010	DE	General Partner / Managing Member	Greenham Asset Management LLC	44%	
359	Greenham DLF Fund, Ltd	New York, NY - USA -10010	DE	General Partner / Managing Member	Greenham DLF Fund, Ltd	0%	
360	Greenham DLF Master Fund, Ltd	New York, NY - USA -10010	DE	General Partner / Managing Member	Greenham DLF Master Fund, Ltd	0%	
361	Greenham GSD Plus Fund, LLC	New York, NY - USA -10010	DE	General Partner / Managing Member	Greenham GSD Plus Fund, LLC	0%	
362	Greenham Investment Management Asia Pte, Ltd	Singapore - 045833	Singapore	General Partner / Managing Member	Greenham Investment Management Asia Pte, Ltd	100%	
363	Greenham Investment Management LLC	New York, NY - USA -10010	DE	General Partner / Managing Member	Greenham Investment Management LLC	100%	
364	GRG Holdings, L.P.	New York, NY	DE	General Partner / Non-Managing Member	GRG Holdings, L.P.	84%	
365	Griffin Capital Fund II, L.P.	New Canaan, CT	DE	General Partner / Non-Managing Member	Griffin Capital Fund II, L.P.	NR	
366	Griffin Capital Fund, LP	New Canaan, CT	DE	General Partner / Non-Managing Member	Griffin Capital Fund, LP	NR	
367	Grupa K&G	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa K&G	100%	
368	Grupa K&G	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa K&G	100%	
369	Grupa Paszypan Vermittlungs GmbH	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa Paszypan Vermittlungs GmbH	1%	
370	Grupa S a r l	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa S a r l	6%	
371	Grupa S a r l	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa S a r l	0%	
372	Grupa S a r l	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa S a r l	0%	
373	Grupa S a r l	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa S a r l	0%	
374	Grupa S a r l	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa S a r l	0%	
375	Grupa S a r l	Essen, Germany	Germany	General Partner / Non-Managing Member	Grupa S a r l	0%	
376	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
377	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
378	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
379	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
380	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
381	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
382	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
383	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
384	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
385	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
386	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
387	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
388	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
389	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	
390	GTRF GP, LLC	Portland, OR 97201	DE	General Partner / Managing Member	GTRF GP, LLC	100%	

474	POCEMA 87 Funduz Inwestycyjny Zamiateryi Ashrowy Napolitaczyni	Poland	Warsaw, Poland		United Partner / Non-Managing Member	Renewable Timber Europe LLC	50%
475	POCEMA 87 Funduz Inwestycyjny Zamiateryi Ashrowy Napolitaczyni	Poland	Warsaw, Poland		United Partner / Non-Managing Member	Renewable Timber Resources LLC	1%
476	POCEMA 85 Funduz Inwestycyjny Zamiateryi Ashrowy Napolitaczyni [FLZAV]	Poland	Warsaw, Poland		United Partner / Non-Managing Member	Global Timber NL, B.V.	100%
477	IPS Holdings, LLC	DE	Greenwood Village, CO 80111		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
478	Indum Inovativa Autovozes 30 Inc	Brazil	Sao Paulo, SP, Brazil 04530-904		General Partner / Managing Member	ACS US30 Holding Inc.	100%
479	Ita Brasil Participacoes Ltda	Brazil	Sao Paulo, SP, Brazil 04543-900		General Partner / Managing Member	Ita Brasil Participacoes Ltda	100%
480	Itaazul General Partner S.A.P.I.	Brazil	Sao Paulo, SP, Brazil 04543-900		General Partner / Managing Member	Itaazul Group Holding Limited SA	100%
481	Janus Brasil Participacoes, S.A.	Brazil	Sao Paulo, SP, Brazil 04543-900		General Partner / Managing Member	Ita Brasil Participacoes Ltda	49%
482	Janus Brasil Participacoes, S.A.	Brazil	Sao Paulo, SP, Brazil 04543-900		General Partner / Managing Member	Ita Brasil Participacoes Ltda	49%
483	Janus Brasil Participacoes, S.A.	Brazil	Sao Paulo, SP, Brazil 04543-900		General Partner / Managing Member	Ita Brasil Participacoes Ltda	1%
484	Janus S.A.	Brazil	Sao Paulo, SP, Brazil 04543-900		General Partner / Managing Member	Ita Brasil Participacoes Ltda	100%
485	Jermain Capital Partners IV LP	DE	New York, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
486	Jerobias Propriedades Agricolas Ltda	Brazil	Sao Paulo, SP, Brazil 04543-900		General Partner / Managing Member	Janus Brasil Participacoes, S.A.	100%
487	JML Properties, Inc.	DE	New York, NY		General Partner / Managing Member	485 Properties, LLC	100%
488	Kapnick & Company, LLC	DE	Redwood City, CA		General Partner / Managing Member	TAA-CREF Redwood, LLC	100%
489	Kendrick Lamy, LLC	DE	Boston, MA 02110		United Partner / Non-Managing Member	Lamy Directional Drilling Co.	100%
490	Konberg Investors VII, L.P.	DE	Madison, NJ 07940		United Partner / Non-Managing Member	Lamont Property Corp.	67%
491	KSI Freshford S.A.P.I.	Luxembourg	Luxembourg, L-2240		United Partner / Non-Managing Member	Kendrick Lamy, LLC	NR
492	KSI Freshford S.A.P.I.	Luxembourg	Luxembourg, L-2240		United Partner / Non-Managing Member	Kendrick Lamy, LLC	NR
493	KSI Freshford S.A.P.I.	Luxembourg	Luxembourg, L-2240		United Partner / Non-Managing Member	Kendrick Lamy, LLC	NR
494	LAC Log Co, LLC	DE	New York, NY 10017		General Partner / Managing Member	TAA-CREF Asset Management, LLC	100%
495	LAC TMS, LLC	DE	Portland, OR 97201		United Partner / Non-Managing Member	Lewis & Clark Timberlands, LLC	100%
496	LAC TMS, LLC	DE	Portland, OR 97201		United Partner / Non-Managing Member	Lewis & Clark Timberlands, LLC	100%
497	LAF Holdings, LLC	DE	Madison, NJ 07943		General Partner / Managing Member	Lamy Directional Drilling Co.	100%
498	Lamy Directional Drilling (Texas), LLC	DE	Spring, TX 77373		General Partner / Managing Member	Lamont Property Corp.	100%
499	Lamy Directional Drilling Co.	DE	Sao Paulo, Brazil		United Partner / Non-Managing Member	Lamont Property Corp.	100%
500	Lamy Directional Drilling Co. Brasil Participacoes LTDA	DE	Sao Paulo, Brazil		United Partner / Non-Managing Member	Lamont Property Corp.	100%
501	Lm Calima Investment Properties United Partnership	DE	Chicago, IL 60610		United Partner / Non-Managing Member	Lamont Property Corp.	67%
502	LDI Acquisition Corp	DE	Boston, MA 02110		United Partner / Non-Managing Member	Lamont Property Corp.	NR
503	LDI Holdings, LLC	DE	Boston, MA 02110		United Partner / Non-Managing Member	Lamont Property Corp.	NR
504	Leopoldo Frenkel Inclusion Fund II LP	DE	Porto Alegre, Republic of Mauritius		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
505	Leopoldo Frenkel Inclusion Fund II LP	DE	Porto Alegre, Republic of Mauritius		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
506	Legacy Piece Associates LLC	DE	Chesnut Hill, MA		United Partner / Non-Managing Member	T.O. Legacy Piece Member LLC	50%
507	Legacy Piece, LLC	MA	Deerham, MA 02026		General Partner / Managing Member	Legacy Piece Associates, LLC	100%
508	Lent Lease Jen Partners LTD	DE	Jurong Gateway, Singapore		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
509	Lewis & Clark Oregon, L.P.	DE	Portland, OR		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	49%
510	Lewis & Clark Timberlands, LLC	DE	Portland, OR 97201		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	70%
511	Liberly M & R SPV II, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
512	Linn Road Partners II, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
513	Linn Road Partners IV, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
514	Linn Road Partners V, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
515	Linn Road Partners VI, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
516	Linn Road Partners VII, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
517	Linn Road Partners VIII, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
518	Linn Road Partners IX, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
519	Linn Road Partners X, L.P.	DE	Winn, CT		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	NR
520	Loma del Rio Vineyards LLC	CA	White Plains, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	45%
521	Loma del Rio Vineyards LLC	CA	White Plains, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	45%
522	Loma del Rio Vineyards LLC	CA	White Plains, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
523	Loma Verde, LLC	DE	San Joaquin County, CA		General Partner / Managing Member	Shenandoah Premium Properties, LLC	100%
524	Lorton Builders, Inc. Ltd. Trust	DE	St. Helier, Jersey JE4 9WG		General Partner / Managing Member	Shenandoah Premium Properties, LLC	100%
525	Lorton Builders, Inc. Ltd. Trust	DE	St. Helier, Jersey JE4 9WG		General Partner / Managing Member	Shenandoah Premium Properties, LLC	100%
526	Madison and Bancroft Investments, LLC	DE	Portland, OR 97201		General Partner / Managing Member	Greenfield UK Holding S.A.P.I.	100%
527	Madison and Bancroft Investments, LLC	DE	Portland, OR 97201		General Partner / Managing Member	Greenfield UK Holding S.A.P.I.	100%
528	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
529	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
530	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
531	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
532	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
533	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
534	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
535	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
536	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
537	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
538	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
539	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
540	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
541	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
542	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
543	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
544	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
545	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
546	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
547	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%
548	Madonia AG SPV	DE	Hanford, CT 06103		General Partner / Managing Member	Casa Grande Investments I, LLC	100%

Entity Number	Entity Name	Entity Type	Entity Address	Entity State	Entity Country	Entity Description	Entity Status	Entity Date	Entity Class
549	Metropolitan Workers Housing Fund LLC	DE	New York, NY		LLC of Property, Leases, Services	LLC of Property, Leases, Services	100%		100%
550	ML Casa I LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
551	ML Casa II Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
552	ML Casa III LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
553	ML Casa III Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
554	ML Casa III LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
555	ML Casa III Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
556	ML Casa III LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
557	ML Casa IV LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
558	ML Casa IV Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
559	ML Casa IV LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
560	ML Casa V LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
561	ML Casa V Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
562	ML Casa VI LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
563	ML Casa VI Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
564	ML Casa VI LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
565	ML Casa VI Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
566	ML Casa VI LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
567	ML Casa VI Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
568	ML Casa VI LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
569	ML Casa VI Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
570	ML Casa VI LP	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
571	ML Casa VI Management LLC	DE	Hartford, CT 06109		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%		100%
572	Montgomery Hall of Maryland, LLC	MD	Los Angeles, CA		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
573	Morgan Stanley Global Emerging Markets Private Investment Fund, L.P.	DE	New York, NY		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
574	Mosaic Capital Investors I, LP	DE	Charlotte, NC 28280		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
575	MP FSG Co-Investors 2014 LLC	DE	Boston, MA		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
576	MSX Minerals, Inc.	DE	Wilmington, DE		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
577	Mutual Fund Cash Portfolio LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
578	IVA Property Fund Holdings, LLC	DE	Hartford, CT 06109		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
579	NARA Partners VII, L.P.	DE	Providence, RI 02903		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
580	ND Europe Direct Holdings S.A. I	DE	Luxembourg		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
581	ND Properties, Inc.	DE	Luxembourg		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
582	NE Agrícola, L.P.A.	DE	São Paulo, SP Brazil 04343		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
583	Neguma Holding Spain, S.L.	DE	Madrid, Spain 28108		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
584	Neguma OPCI SAS	DE	Roggenheim, 67930, France		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
585	Neguma Spain Property Venture BV	DE	Amsterdam, Netherlands 1083XU		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
586	Nephtule Property Ventures S.A. I	DE	Luxembourg, L-2520		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
587	Nephtule Property Ventures S.A. I	DE	Luxembourg, L-2520		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
588	New Farm Land (UK) Trust	DE	St. Helier, Jersey JE1 9HG		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
589	New Farm Land (UK) Trust	DE	St. Helier, Jersey JE1 9HG		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
590	NFC Energy Partners, LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
591	NFC Energy Partners, LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
592	NFC Energy Partners, LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
593	NFC Energy Partners, LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
594	NFC Energy Partners, LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
595	NML ABB Conche Holding, LLC	DE	New York, NY		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
596	Northhopping Centro Comercial S.A. Rodrigues SA	Portugal	Mais, Portugal		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
597	Northhopping Retail & Leisure B.V.	Netherlands	Maa, Portugal		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
598	North American Property Fund, L.P.	DE	Hartford, CT 06109		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
599	North American Sustainable Energy Fund, L.P.	DE	El Segundo, CA 90245		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
600	North American Sustainable Energy GP, LLC	DE	El Segundo, CA 90245		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
601	North American Sustainable Energy Manager, LLC	DE	El Segundo, CA 90245		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
602	North Canal Partners III, L.P.	DE	Gainesville, CT		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
603	North Canal Partners III, L.P.	DE	Gainesville, OH		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
604	Northland Louisiana Community Development Fund I, LLC	DE	Beverly Hills, CA		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
605	Novetur Australia 30, s.a.s.c.	Canada	Montreal, Quebec (Canada) H3B 9P4		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
606	Novas Agrícola Pomei S.A.	Brazil	São Paulo, SP Brazil		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
607	Novas Agrícola S.A. Propriedades Agrícolas	Brazil	São Paulo, SP Brazil		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
608	Novas Cereais Brasil Participações Ltda.	Brazil	São Paulo, SP Brazil		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
609	Novas Cereais Brasil Participações Ltda.	Brazil	São Paulo, SP Brazil		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
610	Novas Ibiapita Propriedades Agrícolas S.A.	Brazil	São Paulo, SP Brazil		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
611	Novas Santa Barbara Agricola SA	Brazil	São Paulo, SP Brazil		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
612	Novas Sui Oil and Gas Inc.	Canada	Calgary, Alberta T2P 3J4		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
613	NRF-C Inception II, LP	DE	New York, NY		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
614	NRF-C Inception LP	DE	New York, NY		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
615	NSC Holdings, L.P.	DE	Toronto, Canada		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
616	Nuveen Asset Management, LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%
617	Nuveen Commodities Asset Management, LLC	DE	Chicago, IL, USA, 60606		LLC of Property, Leases, Services	Teachers Insurance and Annuity Association of America	100%		100%

618	Nuveen Diversified Commodity Fund	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Commodity Asset Management, LLC	1%
619	Nuveen Fund Advisors, LLC	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
620	Nuveen Global Investments Holdings, LLC	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
621	Nuveen Global Investments Ltd	England / Wales	London - United Kingdom - W1J 8LQ		United Partner / Non-Managing Member	Nuveen Global Investments Holdings, LLC	100%
622	Nuveen Global Investors Fund PLC	United Kingdom	London - United Kingdom - W1J 8LQ		General Partner / Managing Member	Nuveen Global Investments Holdings, LLC	0%
623	Nuveen Holdings, Inc.	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
624	Nuveen Investments Advisors Inc.	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	TIAA Asset Management Finance Company, LLC	100%
625	Nuveen Investments Canada Co	Canada	Montreal, QC - Canada - H3B 2G7		United Partner / Non-Managing Member	Nuveen Investments, Inc.	100%
626	Nuveen Investments Holdings, Inc.	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
627	Nuveen Investments, Inc.	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Holdings, Inc.	100%
628	Nuveen Long Short Commodity Total Return Fund	DE	Chicago, IL, USA - 60606	GDC089W4L1TWKJG0TRF80	General Partner / Managing Member	Nuveen Commodity Asset Management, LLC	0%
629	Nuveen MVO Holdings, LLC	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
630	Nuveen Securities, LLC	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
631	Nuveen Trademada Holdings, LLC	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
632	Nuveen WCM Holdings, LLC	DE	Chicago, IL, USA - 60606		General Partner / Managing Member	Nuveen Investments, Inc.	100%
633	NWQ Investment Management Company, LLC	DE	Los Angeles, CA - USA - 90007		General Partner / Managing Member	Nuveen MVO Holdings, LLC	100%
634	NWQ Partner, LLC	DE	Los Angeles, CA - USA -		General Partner / Managing Member	Nuveen MVO Holdings, LLC	0%
635	NXT Capital Senior Loan Fund II, LP	DE	Chicago, IL, 60608		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
636	Oak Knoll Mega Vantage, LLC	CA	Napa Valley, CA		General Partner / Managing Member	Steward Investments, LLC	100%
637	OCAR Capital Fund, LP	CA	San Francisco, CA		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
638	OCAR Capital Fund II, LP	CA	San Francisco, CA		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
639	OCARDOR NORTH AMERICA PROPERTY PARTNERS LP	DE	Los Angeles, CA	CBYZELGFOPBBLQUR7Z	General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
640	Omni Holding Company, Inc.	DE	New York, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
641	Omni LP LLC	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
642	Omni LP LLC	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
643	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
644	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
645	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
646	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
647	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
648	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
649	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
650	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
651	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
652	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
653	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
654	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
655	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
656	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
657	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
658	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
659	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
660	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
661	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
662	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
663	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
664	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
665	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
666	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
667	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
668	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
669	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
670	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
671	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
672	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
673	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
674	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
675	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
676	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
677	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
678	Omni Partners I, LP	DE	Urbanside, NY		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%

753	Bonus Partners II, LP	DE	New York, NY		United Partner / Non-Managing Member				
754	SAAS/IT Consultant, LLC	NC	Charlotte, NC		United Partner / Non-Managing Member				
755	Sunnahalla Foodproducts Agrifood Ltd	DE	Sao Paulo, SP Brazil 04543		United Partner / Non-Managing Member				
756	San Fran, LLC	DE	Hartford, CT 06103		United Partner / Non-Managing Member				
757	Santa Barbara Asset Management, LLC	DE	Los Angeles, CA - USA - 90067		United Partner / Non-Managing Member				
758	Santa Fe Ranch, LLC	DE	Hartford, CT 06103		United Partner / Non-Managing Member				
759	SARL 154 rue de l'Universite	France	Paris, France		General Partner / Managing Member				
760	SARL Dina Braxama	France	Paris, France		General Partner / Managing Member				
761	SARL Olympia Holding	France	Paris, France		General Partner / Managing Member				
762	SARL Olympia Holding	France	Paris, France		General Partner / Managing Member				
763	SARL Serrail Holding	France	Paris, France		General Partner / Managing Member				
764	SARL Serrail Holding	France	Paris, France		General Partner / Managing Member				
765	SAS 154 rue de l'Universite	France	Paris, France		General Partner / Managing Member				
766	SAS 96 rue La Fayette	France	Paris, France		General Partner / Managing Member				
767	SAS Bruyeres I	France	Paris, France		General Partner / Managing Member				
768	SAS Bruyeres II	France	Paris, France		General Partner / Managing Member				
769	SAS Coudettes 71	France	Paris, France		General Partner / Managing Member				
770	SAS Marichie	France	Paris, France		General Partner / Managing Member				
771	SAS Roseveak	France	Paris, France		General Partner / Managing Member				
772	SAS Vireux	France	Paris, France		General Partner / Managing Member				
773	SBC Holdings, LLC	DE	New York, NY 10017		United Partner / Non-Managing Member				
774	Samuel Scientific, Inc	DE	Atlanta, GA 30398		United Partner / Non-Managing Member				
775	SEMO Milling, LLC	MO	Scott City, MO 63780		United Partner / Non-Managing Member				
776	Sempiterna Producers Agrifood Ltd	IN	Sao Paulo, SP Brazil 04543		United Partner / Non-Managing Member				
777	SG Saldona, LLC	IN	New York, NY		United Partner / Non-Managing Member				
778	SH-331 North Apple, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member				
779	SH-Mallennum On Apple, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member				
780	Squidlet Golf Third Avenue, LP	DE	New York, NY		General Partner / Non-Managing Member				
781	Silverado Gonzalez Vineyard, LLC	CA	Monterey County, CA		General Partner / Managing Member				
782	Silverado Los Alamos Vineyard, LLC	CA	Monterey County, CA		General Partner / Managing Member				
783	Silverado Premium Vineyard, LLC	CA	Monterey County, CA		General Partner / Managing Member				
784	Silverado Premium Vineyard, LLC	CA	Monterey County, CA		General Partner / Managing Member				
785	Silverado SLO Vineyard, LLC	CA	San Luis Obispo County, CA		General Partner / Managing Member				
786	Silverado Sonoma Vineyard, LLC	CA	Sonoma County, CA		General Partner / Managing Member				
787	Silverado Suroc, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
788	Silverado Sweetwater Vineyard, LLC	CA	Monterey County, CA		General Partner / Managing Member				
789	Silverado Winegrowers Holdings, LLC	DE	New York, NY		General Partner / Managing Member				
790	Silverado Winegrowers Holdings, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
791	Silverwood Apartments, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member				
792	SNC GammeTIA	France	Paris, France		General Partner / Non-Managing Member				
793	SNC GammeTIA	France	Paris, France		General Partner / Non-Managing Member				
794	SNC GammeTIA	France	Paris, France		General Partner / Non-Managing Member				
795	SNC La Divois	France	Paris, France		General Partner / Non-Managing Member				
796	SNC La Divois	France	Paris, France		General Partner / Non-Managing Member				
797	SNC Lazard	France	Paris, France		General Partner / Non-Managing Member				
798	SNC Parisek	France	Paris, France		General Partner / Non-Managing Member				
799	SNC Parisek	France	Paris, France		General Partner / Non-Managing Member				
800	SNC Roseveak	France	Paris, France		General Partner / Non-Managing Member				
801	SNC Roseveak	France	Paris, France		General Partner / Non-Managing Member				
802	Social Tris, LLC	DE	New York, NY 10017		General Partner / Managing Member				
803	Special Account, L.P.	DE	Hartford, CT 06103		General Partner / Managing Member				
804	SPF Haza Vineyard, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member				
805	SRF, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member				
806	SRF, LLC	DE	Hartford, CT 06103		General Partner / Non-Managing Member				
807	Stargi Cava Ridge Vineyard, LLC	CA	Sonoma County, CA		General Partner / Managing Member				
808	Stargi Cava Ridge Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
809	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
810	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
811	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
812	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
813	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
814	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
815	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
816	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
817	Stargi Cava Ridge Vineyard, LLC	CA	Hartford, CT 06103		General Partner / Managing Member				
818	Strategic Commodities Fund, LP	DE	New York, NY		General Partner / Non-Managing Member				
819	Strategic Commodities Fund, LP	DE	New York, NY - USA - 10010		General Partner / Non-Managing Member				
820	Strategic Value Special Situations Fund II, L.P.	DE	New York, NY - USA - 10010		General Partner / Non-Managing Member				
821	Strategic Value Special Situations Fund, L.P.	DE	New York, NY - USA - 10010		General Partner / Non-Managing Member				
822	Sugetra East Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
823	Sugetra East Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
824	Sugetra East Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
825	Sugetra East Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
826	Sugetra East Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
827	Sugetra East Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
828	Sugetra East Vineyard, LLC	CA	Napa Valley, CA		General Partner / Managing Member				
829	Sweden Floor Lund 2 AB	Sweden	Lund, Sweden 227 81		General Partner / Managing Member				
830	SWG Cava Vineyard, LLC	CA	San Luis Obispo County, CA		General Partner / Managing Member				
831	SWG Cava Vineyard, LLC	CA	San Luis Obispo County, CA		General Partner / Managing Member				
832	SWG Cava Vineyard, LLC	CA	San Luis Obispo County, CA		General Partner / Managing Member				
833	Symphony Asset Management LLC	CA	San Francisco, CA - USA - 94114		General Partner / Managing Member				
834	Symphony Asset Management LLC	CA	San Francisco, CA - USA - 94104		General Partner / Managing Member				
835	Symphony CLO Holdings, LP	CA	San Francisco, CA - USA - 94104		General Partner / Managing Member				

984	TCAM Core Property Fund REIT LLC	DE	New York, NY		United Partner / Non-Managing Member	TIAA-CREF Asset Management Core Property Fund LP	100%
985	TCAM DOF GP LLC	DE	New York, NY		General Partner / Managing Member	TIAA-CREF LPHC, LLC	100%
986	TCAM Global Asset Mgt Pty Ltd	DE	Sydney NSW 2000, Australia		General Partner / Managing Member	TIAA-CREF International Holdings LLC	100%
987	TCAM Global UK Limited	DE	London, United Kingdom		General Partner / Managing Member	TIAA-CREF International Holdings LLC	100%
988	TCAS Global Investments LLC	DE	New York, NY 10017		General Partner / Managing Member	TIAA-CREF Alternative Services, LLC	100%
989	TOGA BT ADV LLC	DE	New York, NY		General Partner / Managing Member	TIAA Alternative Holdings, LLC	100%
990	TOGA II Investor Fund GP LLC	DE	Charlotte, NC 28202		General Partner / Managing Member	TIAA Alternative Holdings, LLC	100%
991	TOGA Investor Fund GP LLC	DE	Charlotte, NC		General Partner / Managing Member	TIAA Alternative Holdings, LLC	100%
992	TCL America, L.P.	DE	Simbury, CT		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	49%
993	TCPC Associates, LLC	DE	New York, NY		General Partner / Managing Member	4AS Properties, LLC	100%
994	TCS II Opportunities Debt Solutions USA, LLC	DE	Minneapolis, MN		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
995	TCS II Opportunities Funding Holding Company, LLC	DE	Minneapolis, MN 55402		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
996	TCS II Opportunities FEO (Othello), LLC	DE	Minneapolis, MN		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
997	TCS II Opportunities FEO USA, LLC	DE	Minneapolis, MN		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
998	TCS II Opportunities USA Investment Holding Company (Othello), LLC	DE	Minneapolis, MN		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
999	TCS II Opportunities USA Investment Holding Company, LLC	DE	Minneapolis, MN		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
1000	TCT Holdings, Inc	DE	New York, NY 10017			Teachers Insurance and Annuity Association of America	100%
1001	Teachers Advisors, Inc.	DE	New York, NY	QSEYPC07HOSMWRLOU4		TIAA-CREF Asset Management LLC	100%
1002	Teachers Mayflower, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1003	Teachers Personal Investments Services, Inc	DE	New York, NY			TIAA-CREF Asset Management LLC	100%
1004	Teens River Investments, LLC	DE	New York, NY	648300WCLGD0000808883	United Partner / Non-Managing Member	Ocestar Agricultural Properties, LLC	37%
1005	Tellus Bahia Propriedades Agricolas Ltda.	Brazil	Sao Paulo, SP Brazil			Tellus Brasil Participacoes S.A.	100%
1006	Tellus Brasil Participacoes S.A	Brazil	Sao Paulo, SP Brazil		General Partner / Managing Member	Radar Propriedades Agricolas SA	1%
1007	Tellus Brasil Participacoes S.A	Brazil	Sao Paulo, SP Brazil		General Partner / Managing Member	Terraviva Brasil Participacoes Ltda.	49%
1008	Tellus Brasil Participacoes S.A	Brazil	Sao Paulo, SP Brazil			Novo Gais Brasil Participacoes Ltda.	1%
1009	Tellus Nordeste Propriedades Agricolas Ltda.	Brazil	Sao Paulo, SP Brazil			Tellus Brasil Participacoes S.A.	100%
1010	Terra do Sol Propriedades Agricolas S.A	Brazil	Sao Paulo, SP Brazil		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	100%
1011	Terra Firma Capital Partners Co-Private A L.P.	DE	London, United Kingdom		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
1012	Terra Firma Capital Partners II Co-Private A L.P.	DE	London, United Kingdom		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
1013	Terra Land Company	DE	Champaign, IL			Westchester Group Investment Management, Inc.	100%
1014	Terra Ventures Vineyards, LLC	CA	Monterey County, CA		General Partner / Managing Member	Sverigado Premium Properties, LLC	100%
1015	Terraviva Propriedades Agricolas S.A	Brazil	Sao Paulo, SP Brazil			Tellus Brasil Participacoes S.A.	100%
1016	Terra de Ponta Alta S.A	Brazil	Sao Paulo, SP Brazil			Radar Propriedades Agricolas SA	100%
1017	Terraviva Brasil Participacoes Ltda.	Brazil	Sao Paulo, SP Brazil		General Partner / Managing Member	Novo Gais Brasil Participacoes Ltda.	100%
1018	Terraviva Brasil Participacoes Ltda.	Brazil	Sao Paulo, SP Brazil		General Partner / Managing Member	TIAA-CREF Global Agriculture BR, LLC	1%
1019	TH Property Holdings, LLC	DE	Hanford, CT 06103		General Partner / Managing Member	TIAA Alternative Holdings, LLC	100%
1020	TH RE Administration Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TIAA Henderson Real Estate Limited	100%
1021	TH RE Administration US LLC	DE	New York, NY		General Partner / Managing Member	TH RE US Holdings LLC	100%
1022	TH RE AEM Group Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TIAA Henderson Real Estate Limited	100%
1023	TH RE Corporate Secretariat Services Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TH RE Group Holdings, Limited	100%
1024	TH RE FC&CO Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TIAA Henderson Real Estate Limited	100%
1025	TH RE Group Holdings Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TIAA Henderson Real Estate Limited	100%
1026	TH RE Tech S.S.I	DE	Milan, Italy 20123		General Partner / Managing Member	TH RE Group Holdings, Limited	100%
1027	TH RE Operations Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TH RE Group Holdings, Limited	100%
1028	TH RE US Holdings, LLC	DE	New York, NY		General Partner / Managing Member	TH RE US Limited	100%
1029	TH RE US Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TIAA Henderson Real Estate Limited	100%

1030	TH Real Estate (Australia) Limited	DE	Sydney NSW 2000, Australia	General Partner / Managing Member	TH RE Group Holdings Limited	100%
1031	TH Real Estate (France) SAs	DE	Paris, France	General Partner / Managing Member	TH RE Group Holdings Limited	100%
1032	TH Real Estate (Hong Kong) Limited	DE	Hong Kong	General Partner / Managing Member	TH RE Group Holdings Limited	100%
1033	TH Real Estate PE L.V. GP S.r.l.	DE	Luxembourg	General Partner / Managing Member	TH RE Group Holdings Limited	100%
1034	TH Real Estate US LLC	DE	New York, NY	General Partner / Managing Member	TH RE US Holdings LLC	100%
1035	TH ETAP Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1036	TH ETAP Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1037	TH ETAP Master Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Asset Management LLC	0%
1038	TH Fabs 100 DC Residential LLC	DE	Washington, DC	General Partner / Managing Member	The Fabs Holding Company, LLC	100%
1039	TH Fabs 140 DC Residential LLC	DE	Washington, DC	General Partner / Managing Member	The Fabs Holding Company, LLC	100%
1040	TH Fabs DC Greeny, LLC	DE	Washington, DC	General Partner / Managing Member	The Fabs Holding Company, LLC	100%
1041	TH Fabs Holding Company LLC	DE	Washington, DC	General Partner / Managing Member	The Fabs Holding Company, LLC	100%
1042	TH Greenham A+ Fund LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	1%
1043	TH Greenham A+ Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1044	TH Greenham A+ Master Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Asset Management LLC	1%
1045	TH Greenham DJF Commodity/Bulder Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1046	TH Greenham EJ Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1047	TH Greenham EJ Master Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Asset Management LLC	0%
1048	TH Greenham G+ Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Asset Management LLC	1%
1049	TH Greenham G+ Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	1%
1050	TH Greenham G+ Master Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Asset Management LLC	0%
1051	TH Greenham MTP Commodity Bulder Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	1%
1052	TH Greenham Qualifying Investor Funds PLC	United Kingdom	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1053	TH Ombion ETP Fund, L.L.C.	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1054	TH Ombion Greenham A+ Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1055	TH Park White Parkers Trust	DE	Napa Valley, CA	General Partner / Managing Member	Woodsfield Group Investment Management, Inc	100%
1056	TH Pointe M Chapel Hill Apartments, LLC	DE	Hartford, CT 06103	General Partner / Managing Member	Casa Partners IV, L.P.	100%
1057	TH Renaissance Fund III, L.P.	DE	Channah, OH	General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	NR
1058	TH Strategic Commodities Fund II LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1059	TH Strategic Commodities Fund LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1060	TH Strategic Commodities Master Fund, Ltd	United Kingdom	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1061	TH TAP Commodity/Bulder Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1062	TH TAP Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1063	TH TAP Fund, Ltd	United Kingdom	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1064	TH TAP Master Fund, Ltd	United Kingdom	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1065	TH TAP WP Fund, LLC	DE	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Asset Management LLC	1%
1066	TH TAP WP Master Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Asset Management LLC	1%
1067	TH TAP WP Master Fund, Ltd	Cayman Islands	New York, NY - USA - 10010	General Partner / Managing Member	Greenham Investment Management LLC	0%
1068	TH Tradetional Institutional Investment Trust	DE	Los Angeles, CA - USA - 90067	General Partner / Managing Member	Tradetional Global Investor, LLC	0%
1069	TH Waves Apartments, LP	DE	Hartford, CT 06103	General Partner / Non-Managing Member	BGA Partners III, LP	100%
1070	TIAA 485 Cleverdon, LLC	DE	New York, NY	General Partner / Managing Member	485 Properties, LLC	100%
1071	TIAA 61 JFK - 1305	DE	Uniondale, NY	General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	4%
1072	TIAA Alternative Holdings, LLC	DE	New York, NY	General Partner / Managing Member	TIAA-CREF Asset Management LLC	100%
1073	TIAA Asset Management Finance Company, LLC	DE	New York, NY	General Partner / Managing Member	TIAA Global Asset Management LLC	100%
1074	TIAA CIO LTD	Cayman Islands	730 Third Ave, NY, NY - 10017	General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1075	TIAA CMBB, Trust	DE	New York, NY	General Partner / Managing Member	TIAA CMBB, LLC	100%
1076	TIAA CMBB, LLC	DE	New York, NY	General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%

1077	TAA Diamond Investor, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1078	TAA Diversified Public Investments, LLC	DE	730 Third Ave NY, NY 10017		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1079	TAA Franklin Square, LLC	DE	New York, NY		United Partner / Non-Managing Member	T-C Franklin Square Venture LLC	100%
1080	TAA Grant Office, LLC	DE	New York, NY		General Partner / Managing Member	483 Properties, LLC	100%
1081	TAA Global Ag Hedco LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1082	TAA Global Ag II Special Member LLC	DE	New York, NY, 10017		General Partner / Managing Member	TAA Alternative Holdings, LLC	100%
1083	TAA Global Ag Special Member LLC	DE	New York, NY		General Partner / Managing Member	TAA Alternative Holdings, LLC	100%
1084	TAA Global Asset Management LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1085	TAA Global Equity Income, LLC	DE	New York, NY 10017		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1086	TAA Global Public Investments, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1087	TAA GTR Hedco LLC	DE	Portland, OR 97201		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1088	TAA Henderson Investment Consulting (Shanghai) Company Limited	DE	the 855, 9/F, Eco City No. 1788 Minjihu West Road, Jing'an District, Shanghai, China, 200040		General Partner / Managing Member	TH RE Group Holdings Limited	100%
1089	TAA Henderson Real Estate Enhanced Debt (CF) S.A.1.	DE	Luxembourg-Finland, L-1748		General Partner / Managing Member	TH RE Group Holdings Limited	100%
1090	TAA Henderson Real Estate Enhanced Debt Fund SCSP-SIF	DE	201 Bishopsgate, London, England EC2M 3BN		General Partner / Managing Member	TAA Henderson Real Estate Enhanced Debt (CF) S.A.1	0%
1091	TAA Henderson Real Estate Enhanced Debt Fund SCSP-SIF	DE	201 Bishopsgate, London, England EC2M 3BN		United Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	39%
1092	TAA Henderson Real Estate Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TAA International Holdings 1 Limited	1%
1093	TAA Henderson Real Estate Limited	DE	London, EC2M 3BN, United Kingdom		General Partner / Managing Member	TAA International Holdings 3 Limited	86%
1094	TAA Infrastructure Investments, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1095	TAA International Holdings 1 Limited	DE	London, United Kingdom		General Partner / Managing Member	TAA-CREF International Holdings LLC	100%
1096	TAA International Holdings 2 Limited	DE	London, United Kingdom		General Partner / Managing Member	TAA-CREF International Holdings LLC	100%
1097	TAA International Holdings 3 Limited	DE	London, United Kingdom		General Partner / Managing Member	TAA International Holdings 2 Limited	100%
1098	TAA Lux 11 S.A.1.	Luxembourg	Luxembourg		General Partner / Managing Member	NO Europe S.a.1.	51%
1099	TAA Lux 5 S.A.1.	Luxembourg	Luxembourg		General Partner / Managing Member	NO Properties, Inc.	51%
1100	TAA Lux 9 S.A.1.	Luxembourg	Luxembourg, L-2530		General Partner / Managing Member	Clyford Office Partnership S.A.1.	8%
1101	TAA Lux 8 S.A.1.	Luxembourg	Luxembourg, L-2530		United Partner / Non-Managing Member	NO Europe Office Holding S.A.1.	6%
1102	TAA Lux 8 S.A.1.	Luxembourg	Luxembourg		General Partner / Managing Member	Clyford Office Partnership S.A.1.	100%
1103	TAA Oil and Gas Investments, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1104	TAA Park Estates, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1105	TAA Realty, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1106	TAA Starford/Hartford, LLC	DE	New York, NY		General Partner / Managing Member	NO Properties, Inc.	100%
1107	TAA STRUCTURED FINANCE CDO1, Limited	DE	Grand Cayman, Cayman Islands		General Partner / Managing Member	Teachers ANSonne, Inc.	0%
1108	TAA STRUCTURED FINANCE CDO1, LLC	DE	Newark, Delaware 19711		General Partner / Managing Member	Teachers ANSonne, Inc.	0%
1109	TAA Super Regional Mail Member Sub LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1110	TAA SynGem, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1111	TAA Timberlands I, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1112	TAA Timberlands II, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1113	TAA Union Pipe Phase I, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1114	TAA Viread Investments, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1115	TAA-CPIB Commercial Mortgage Company RENT LLC	DE	New York, NY		General Partner / Managing Member	TAA-CPIB Commercial Mortgage Company, L.P.	50%
1116	TAA-CPIB Commercial Mortgage Company, L.P.	DE	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	50%
1117	TAA-CREF Commercial Mortgage Company, L.P.	DE	New York, NY		General Partner / Managing Member	T-C SMA III, LLC	1%
1118	TAA-CREF Alternatives Ashburn, LLC	DE	New York, NY		General Partner / Managing Member	TAA Alternative Holdings, LLC	100%
1119	TAA-CREF Alternatives Saratoga, LLC	DE	New York, NY		General Partner / Managing Member	TAA Alternative Holdings, LLC	100%
1120	TAA-CREF Asset Management Core Property Fund LP	DE	New York, NY		United Partner / Non-Managing Member	NO Properties, Inc.	8%
1121	TAA-CREF Asset Management Core Property Fund LP	DE	New York, NY		United Partner / Non-Managing Member	TCAM Core Property Fund GP LLC	1%

1122	TIAA-CREF Asset Management Diversified Opportunities Fund L.P.	DE	New York, NY		General Partner / Managing Member	TGM DOF GP LLC	0%
1123	TIAA-CREF Asset Management Diversified Opportunities Fund L.P.	DE	New York, NY		General Partner / Non-Managing Member	Teachers Insurance and Annuity Association of America	52%
1124	TIAA-CREF Asset Management LLC	DE	New York, NY		General Partner / Managing Member	TIAA Global Asset Management LLC	100%
1125	TIAA-CREF Asset Management UK Limited	DE	London, EC2N 3BN, United Kingdom		General Partner / Managing Member	TH RE FCACO Limited	100%
1126	TIAA-CREF Global Agriculture BR LLC	DE	New York, NY		General Partner / Managing Member	TIAA-CREF Global Agriculture LLC	100%
1127	TIAA-CREF Global Agriculture II BR LLC	DE	New York, NY		General Partner / Managing Member	TIAA-CREF Global Agriculture II LLC	100%
1128	TIAA-CREF Global Agriculture III BR LLC	DE	Chicago, IL 60602		General Partner / Managing Member	TIAA Global Ag Holdco LLC	12%
1129	TIAA-CREF Global Agriculture Fund LP	DE	Charlotte, NC	44930026LJHRSORC42	General Partner / Managing Member	TGA Global Ag Fund LP	0%
1130	TIAA-CREF Global Agriculture LLC	DE	Charlotte, NC	54830026LJHRSORC42	General Partner / Managing Member	TGA Global Ag Holdco LLC	42%
1131	TIAA-CREF Global Agriculture LLC	DE	New York, NY		General Partner / Managing Member	TIAA-CREF Global Agriculture Fund LP	1%
1132	TIAA-CREF Global Investment LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1133	TIAA-CREF Individual & Institutional Services LLC	DE	New York, NY		General Partner / Managing Member	TIAA-CREF Individual & Institutional Services LLC	100%
1134	TIAA-CREF Insurance Agency LLC	DE	New York, NY		General Partner / Managing Member	TIAA-CREF Insurance Agency LLC	100%
1135	TIAA-CREF International Holdings LLC	DE	New York, NY		General Partner / Managing Member	TIAA Alternative Holdings, LLC	100%
1136	TIAA-CREF Investment Management LLC	DE	New York, NY		General Partner / Managing Member	TIAA-CREF Asset Management LLC	100%
1137	TIAA-CREF Life Insurance Company	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1138	TIAA-CREF LHC LLC	DE	New York, NY		General Partner / Managing Member	TH RE Group Holdings Limited	100%
1139	TIAA-CREF Luxembourg S.à.r.l.	DE	Luxembourg		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1140	TIAA-CREF Luxembourg S.à.r.l.	DE	New York, NY		General Partner / Managing Member	ICF Holdings, Inc.	100%
1141	TIAA-CREF Trust Company, FSB	N/A	St. Louis, MO 63102				
1142	TIAA-CREF Tution Financing, Inc.	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1143	TIAA-EMERGING MARKET DEBT FUND	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	80%
1144	TIAA-Strategic Investments I, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1145	TIAA-Strategic Investments II, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1146	TIAA-Strategic Investments III, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1147	TIAA-Strategic Investments IV, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1148	TIAA-Strategic Investments V, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1149	TIAA-Strategic Investments VI, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1150	TIAA-Strategic Investments VII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1151	TIAA-Strategic Investments VIII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1152	TIAA-Strategic Investments IX, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1153	TIAA-Strategic Investments X, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1154	TIAA-Strategic Investments XI, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1155	TIAA-Strategic Investments XII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1156	TIAA-Strategic Investments XIII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1157	TIAA-Strategic Investments XIV, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1158	TIAA-Strategic Investments XV, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1159	TIAA-Strategic Investments XVI, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1160	TIAA-Strategic Investments XVII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1161	TIAA-Strategic Investments XVIII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1162	TIAA-Strategic Investments XIX, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1163	TIAA-Strategic Investments XX, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1164	TIAA-Strategic Investments XXI, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1165	TIAA-Strategic Investments XXII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1166	TIAA-Strategic Investments XXIII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1167	TIAA-Strategic Investments XXIV, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1168	TIAA-Strategic Investments XXV, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1169	TIAA-Strategic Investments XXVI, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1170	TIAA-Strategic Investments XXVII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1171	TIAA-Strategic Investments XXVIII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1172	TIAA-Strategic Investments XXIX, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1173	TIAA-Strategic Investments XXX, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1174	TIAA-Strategic Investments XXXI, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1175	TIAA-Strategic Investments XXXII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1176	TIAA-Strategic Investments XXXIII, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%
1177	TIAA-Strategic Investments XXXIV, LLC	DE	New York, NY		General Partner / Managing Member	Teachers Insurance and Annuity Association of America	100%

Form FR Y-6
2a: Organizational Chart
TCT Holdings, Inc.
New York, New York
Fiscal Year Ending December 31, 2015

Entity Name	Domestic Jurisdiction	Physical Address	Parent Name	Ownership %
TIAA Board Of Overseers				
Teachers Insurance and Annuity Association of America	NY	New York, NY	TIAA Board Of Overseers	100%
TCT Holdings, Inc.	DE	New York, NY	Teachers Insurance and Annuity Association of America	100%

Form FR Y-6
TIAA Board Of Overseers
Fiscal Year Ending December 31, 2015 ✓

Report Item 3: Securities holders
 (1)(a)(b)(c) and (2)(a)(b)(c)

Current securities holders with ownership, control or holdings of 5% or more with power to vote as of fiscal year ending 12-31-2015			Securities holders not listed in 3(1)(a) through 3(1)(c) that had ownership, control or holdings of 5% or more with power to vote during the fiscal year ending 12-31-2015		
(1)(a) Name, City, State, Country	(1)(b) Country of Citizenship or Incorporation	(1)(c) Number and Percentage of Each Class of Voting Securities	(2)(a) Name, City, State, Country	(2)(b) Country of Citizenship or Incorporation	(2)(c) Number and Percentage of Each Class of Voting Securities
<p>There are no stockholders for TIAA Board of Overseers. TIAA Board of Overseers (a Type B New York not-for-profit corporation) was chartered on June 3, 1937 by an act of the New York State Legislature. All of the common stock of the Teachers Insurance and Annuity Association of America ("TIAA") was transferred by the Carnegie Corporation of New York to the TIAA Board of Overseers for the purpose of holding the outstanding stock of TIAA, a legal reserve life insurance company.</p>					
N/A			N/A		

Form FR Y-6
 Teachers Insurance and Annuity Association of America (TIAA)
 Fiscal Year Ending December 31, 2015

Report Item 3: Securities holders
 (1)(a)(b)(c) and (2)(a)(b)(c)

Current securities holders with ownership, control or holdings of 5% or more with power to vote as of fiscal year ending 12-31-2015			Securities holders not listed in 3(1)(a) through 3(1)(c) that had ownership, control or holdings of 5% or more with power to vote during the fiscal year ending 12-31-2015		
(1)(a) Name, City, State, Country	(1)(b) Country of Citizenship or Incorporation	(1)(c) Number and Percentage of Each Class of Voting Securities	(2)(a) Name, City, State, Country	(2)(b) Country of Citizenship or Incorporation	(2)(c) Number and Percentage of Each Class of Voting Securities
TIAA Board Of Overseers New York, NY, USA	USA	2,500 Shares - 100% Common Capital Stock	N/A		

Report Item 3: Securities holders
(1)(a)(b)(c) and (2)(a)(b)(c)

Current securities holders with ownership, control or holdings of 5% or more with power to vote as of fiscal year ending 12-31-2015			Securities holders not listed in 3(1)(a) through 3(1)(c) that had ownership, control or holdings of 5% or more with power to vote during the fiscal year ending 12-31-2015		
(1)(a) Name, City, State, Country	(1)(b) Country of Citizenship or Incorporation	(1)(c) Number and Percentage of Each Class of Voting Securities	(2)(a) Name, City, State, Country	(2)(b) Country of Citizenship or Incorporation	(2)(c) Number and Percentage of Each Class of Voting Securities
TEACHERS INSURANCE AND ANNUITY ASSOCIATION OF AMERICA New York, NY, USA	USA	100 Shares - 100% Common Stock	N/A		

Form FR Y-6
TIAA Board of Overseers & Officers
Teachers Insurance and Annuity Association of America ("TIAA")
Fiscal Year Ending December 31, 2015

Report Item 4: Insiders (1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)								
	(1)	(2)	(3)(a)	(3)(b)	(3)(c)			
Name	City, State	Country	Principal Occupation If Other Than With TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (Include names of subsidiaries)	Title & Position With Other Businesses (Include Names Of Other Businesses)		
						(4)(a)	(4)(b)	(4)(c)
						Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (Include names of subsidiaries)	List Names Of Other Companies (Includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Of Companies And Percentage Of Voting Securities Held)
1	Lawrence Seldon Bacow	Brookline, MA	USA	Retired	Member (TIAA Board of Overseers)	N/A	N/A	N/A
2	Molly Broad	Washington, DC	USA	President (American Council on Education)	Member (TIAA Board of Overseers)	N/A	N/A	N/A
3	Scott S. Cowen	New Orleans, LA	USA	President, Emeritus and Distinguished University Chair (Tulane University)	Member (TIAA Board of Overseers)	N/A	N/A	N/A

**Form FR Y-6
TIAA Board of Overseers & Officers
Teachers Insurance and Annuity Association of America ("TIAA")
Fiscal Year Ending December 31, 2015**

Report Item 4: Insiders (1), (2), (3)(a)(b)(c), and (4)(a)(b)(c)									
(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)		
Name	City, State	Country	Principal Occupation if Other Than With TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (Include names of subsidiaries)	Title & Position With Other Businesses (Include Names Of Other Businesses)	Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (Include names of subsidiaries)	List Names Of Other Companies (Includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Of Companies And Percentage Of Voting Securities Held)
4	Roger Walton Ferguson, Jr.; Washington, DC	USA	N/A	Member (TIAA Board of Overseers); President & Chief Executive Officer (TIAA); Trustee (TIAA Board of Trustees)	Chief Executive Officer, President and Manager (730 Holdings, LLC); Director (Covance Capital Management, Inc.)	President & Chief Executive Officer (College Retirement Equity Funds); President & Chief Executive Officer (TIAA Separate Account VA-1); Director (American Council of Life Insurers ("ACLI")); Fellow Member (American Academy of Arts & Sciences); Advisory Committee Member (Brevar Howard Asset Management); Member (Business-Higher Education Forum (BHEF)); Member (Council on Foreign Relations (CFR)); Member (Economic Club of New York); Member (Group of Thirty); Board of Trustees (Institute for Advanced Study); Board Member (International Flavors and Fragrances (IFF)); Board of Directors (Math for America); Board of Overseers (Memorial Sloan-Kettering Cancer Center); Board of Directors (Partnership for NYC); Board member (General Mills); Board of Trustees and Chairman (The Conference Board); Serve on the boards (the American Council of Life Insurers)	None	None	Black Heritage Network
5	Clyde Lee Killingsworth; Herkbeck, NY	USA	Retired	Member (TIAA Board of Overseers)	N/A	A board member of The Travelers Company A faculty member of the Harvard School of Public Health; A board member of MITRE Corporation; A trustee of Nazareth College; A founding member of the Executive Leadership Council	None	None	N/A
6	Michael Steven McPherson; Chicago, IL	USA	CEO/President (The Spencer Foundation)	President and Member (TIAA Board of Overseers)	N/A	CEO/President (The Spencer Foundation); Member of the board of Forum on the Future of Higher Education; The executive planning board of Project Pericles; Trustee of the McNally Smith College of Music	None	None	N/A

Form FR Y-6
TIAA Board of Overseers & Officers
Teachers Insurance and Annuity Association of America ("TIAA")
Fiscal Year Ending December 31, 2015

Report Item 4: Insiders (1), (2), (3)(a)(b)(c) and (4)(a)(b)(c)											
	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)			
	Name	City, State	Country	Principal Occupation If Other Than With TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (include names of subsidiaries)	Title & Position With Other Businesses (include Names Of Other Businesses)	Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)	List Names Of Other Companies (includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Of Companies And Percentage Of Voting Securities Held)	
7	Alair Ane Townsend	New York, NY	USA		Member (TIAA Board of Overseers)	N/A	Non-fiduciary member of M&T Bank's NYC Advisory Board; Chair of the David H. Koch Theater since 2010; A board member and Chair of the Greater New York Councils of the Boy Scouts of America, (NYC Area) Advisory Board; A board member of the Scouts' Northeast Region Board; The M&T Bank (NYC Area) Advisory Board; A board member of Ghibney Dance; A board member of the Citizens Budget Commission; A board member of Lincoln Center for the Performing Arts; Executive Committee Member of the Public Policy Institute of the Business Council of New York State; The Board of Overseers of the Rockefeller Institute of Government		None	None	N/A
8	Virginia Mary Wilson	NEW YORK, NY	USA	N/A	Executive Vice President (TIAA Board of Overseers); Executive Vice President & Chief Financial Officer (TIAA)	Director, Executive Vice President & Chief Financial Officer (TCT Holdings, Inc.); Executive Vice President (TIAA Asset Management Finance Company, LLC) Executive Vice President (TIAA Asset Management LLC) Executive Vice President & Chief Financial Officer (TIAA Global Equity Income, LLC) Executive Vice President (TIAA-CREF Asset Management L.L.); Executive Vice President & Chief Financial Officer (TIAA Global Equity Income, LLC); Manager and Executive Vice President, Chief Financial Officer (TIAA-CREF Redwood, LLC)	Executive Vice President & Chief Financial Officer (College Retirement Equities Fund); Director (Los Angeles Child Guidance Clinic); Trustee and Vice Chair (Catholic Charities New York)	None	None	Trusts established for my immediate family's estate planning purposes.	

Form FR Y-6
Teachers Insurance and Annuity Association of America ("TIAA")
TIAA Board of Trustees and Executive Management
Fiscal Year Ending December 31, 2015

Report Item 4: Insiders (1), (2), (3)(a)(b)(c), and (4)(a)(b)(c)										
	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)		
Name	City, State	Country	Principal Occupation if Other Than With TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (Include names of subsidiaries)	Title & Position with Other Businesses (Include Names Or Other Businesses)	Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (Include names of subsidiaries)	List Names Of Other Companies (Includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Of Companies And Percentage Of Voting Securities Held)	
7	Carol Ward Decker	Matthews, NC	USA	N/A	Executive Vice President (TIAA)	<p>Title & Position with Subsidiaries (Include names of subsidiaries)</p> <p>Manager (Beaver Investment Holdings LLC)</p> <p>Director (GreenWood Resources, Inc.);</p> <p>Director and Executive Vice President, Chief Operating Officer (Teachers Advisors, Inc.);</p> <p>Chief Operating Officer, (TIAA Alternative Holdings, LLC);</p> <p>Manager and Executive Vice President (TIAA Asset Management, LLC);</p> <p>President (TIAA Global Equity Income, LLC);</p> <p>President and Chairman (TIAA-CREF Alternatives Advisors, LLC);</p> <p>President and Chairman, TIAA-CREF Alternatives Services, LLC);</p> <p>Chief Executive Officer, President and Director (TIAA-CREF Asset Management LLC);</p> <p>Manager and Executive Vice President (TIAA-CREF Investment Management, LLC);</p> <p>Director (Westchester Group Investment Management, Inc.);</p>	<p>Title & Position with Other Businesses (Include Names Or Other Businesses)</p> <p>Executive Vice President (College Retirement Equities Fund);</p> <p>Executive Vice President (TIAA Separate Account VA-1 (VA-1));</p> <p>Executive Vice President (TIAA-CREF Funds);</p> <p>Executive Vice President (TIAA-CREF Life Funds);</p>	None	None	
8	Roger Walton Ferguson, Jr.	Washington, DC	USA	N/A	Member (TIAA Board of Overseers); President & Chief Executive Officer (TIAA); Trustee (TIAA Board of Trustees)	<p>Chief Executive Officer, President and Manager (730 Holdings, LLC);</p> <p>Director (Covariance Capital Management, Inc.)</p>	<p>President & Chief Executive Officer (College Retirement Equity Funds);</p> <p>President & Chief Executive Officer (TIAA Separate Account VA-1);</p> <p>Director (American Council of Life Insurers ("ACLI"));</p> <p>Fellow Member (American Academy of Arts & Sciences);</p> <p>Advisory Committee Member (Breyer Howard Asset Management);</p> <p>Member (Business-Higher Education Forum (BHEF));</p> <p>Member (Council on Foreign Relations (CFR));</p> <p>Member (Economic Club of New York);</p> <p>Member (Group of Thirty);</p> <p>Board of Trustees (Institute for Advanced Study);</p> <p>Board Member (International Flavors and Fragrances (IFF));</p> <p>Board of Directors (Miah for America);</p> <p>Board of Overseers (Memorial Sloan-Kettering Cancer Center);</p> <p>Board of Directors (Partnership for NYC);</p> <p>Board member (General Mills);</p> <p>Board of Trustees and Chairman (The Conference Board);</p> <p>Serve on the boards (the American Council of Life Insurers)</p>	None	None	Black Heritage Network

Form FR Y-6
Teachers Insurance and Annuity Association of America ("TIAA")
TIAA Board of Trustees and Executive Management
Fiscal Year Ending December 31, 2015

Report Item 4: Insiders (1), (2), (3)(a)(b)(c), and (4)(a)(b)(c)									
	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)	
Name	City, State	Principal Occupation If Other Than TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (Include names of subsidiaries)	Title & Position With Other Businesses (Include Names Or Other Businesses)	Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (Include names of subsidiaries)	List Names Of Other Companies (Includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Or Companies And Percentage Of Voting Securities Held)	
9	Stephen Barry Grunpo	Darien, CT	USA	N/A	Executive Vice President, Chief Risk Officer (TIAA)	Executive Vice President (TIAA-CREF Alternative Services, LLC); Executive Vice President (TIAA Asset Management Finance Company, LLC); Executive Vice President (TIAA-CREF Alternative Advisors, LLC); Executive Vice President (TIAA-CREF Investment Management, LLC); Executive Vice President (Teachers Advisors, Inc.)	None	None	N/A
10	Lisa Wolfson Hess	New York, NY	USA	President & Managing Partner (SkyTop Capital Management LLC)	Trustee (TIAA Board of Trustees)	Director (TIAA-CREF Trust Company, FSB); Director (Covance Capital Management, Inc.)	None	None	Own and control 100 % of Wolfson Investment Partners, Inc. - the General Partner of Wolfson Investment Partners, which is a family investment vehicle; Control 51 percent of that family investment vehicle as a limited partner; Own 25% of SkyTop Capital Management, a hedge fund.
11	Jeffrey Wayne Hickling	Concord, NC	USA	Executive Vice President, Office of Business Effectiveness,	Trustee (TIAA Board of Trustees)	N/A	None	None	N/A
12	Edward Mark Hundert	Brookline, MA	USA	Dean for Medical Education M.D. Professor (Harvard Medical School)	Trustee (TIAA Board of Trustees)	N/A	None	None	N/A

Form FR Y-6
Teachers Insurance and Annuity Association of America ("TIAA")
TIAA Board of Trustees and Executive Management
Fiscal Year Ending December 31, 2015

Report Item 4: Insiders (1), (2), (3)(a)-(c), and (4)(a)-(c)								
	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)
	Name	Principal Occupation if Other Than With TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (include names of subsidiaries)	Title & Position With Other Businesses (include Names Of Other Businesses)	Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)	List Names Of Other Companies (includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Of Companies And Percentage Of Voting Securities Held)
13	Robert Graham Leary	N/A	Executive Vice President, CEO of Asset Management (TIAA)	Director (TCAM Global UK Limited); Chairman, President and Chief Executive Officer (Teachers Advisors, Inc.); Chairman (Teachers Personal Investors Services, Inc.); President and Chief Executive Officer (TIAA Alternative Holdings, LLC); President and Chief Executive Officer (TIAA Asset Management Finance Company, LLC); Manager, President and Chief Executive Officer (TIAA Asset Management, LLC); Director (TIAA Henderson Real Estate Limited); Director (TIAA International Holdings 1 Ltd); Director (TIAA International Holdings 2 Ltd); Director (TIAA International Holdings 3 Ltd); Chairman of the Board (TIAA-CREF Asset Management, LLC); Chairman, President and Chief Executive Officer (TIAA-CREF Investment Management, LLC); Director (Nuveen Investments, Inc.)	Principal Executive Officer and Executive Vice President (College Retirement Equity Funds); Principal Executive Officer and President (TIAA-CREF Funds); Principal Executive Officer and President (TIAA-CREF Life Funds); Principal Executive Officer and Executive Vice President (TIAA Separate Account VA-1 (VA-1)); Director (Intrad Financial Corporation)	None	None	N/A
14	Lawrence Howard Linden	Founder and Trustee (Linden Trust for Conservation)	Trustee (TIAA Board of Trustees)	N/A	Founder and Trustee (Linden Trust for Conservation, New York, NY); Advisory Director (Redstone Strategy Group); Member of Strategic Advisory Board (New World Capital Group); Board Member (World Wildlife Fund)	None	None	N/A
15	MAUREEN O'HARA	College professor	TIAA Board of Trustees	N/A	R.W. Purcell Professor of Finance (Johnson Graduate School of Management, Cornell University); Chairman of the Board (Investment Technology Group (ITG), NY, NY); Non-executive Chairman (ITG Inc.); Board Member (NewStar Financial, Inc. (NEWS)); Advisor (Symbiont)	None	None	N/A

Form FR Y-6
Teachers Insurance and Annuity Association of America ("TIAA")
TIAA Board of Trustees and Executive Management
Fiscal Year Ending December 31, 2016

Report Item 4: Insiders
(1), (2), (3)(x)(b)(c), and (4)(x)(b)(c)

	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)
Name	City, State	Principal Occupation if Other Than With TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (include names of subsidiaries)	Title & Position With Other Businesses (include Names Or Other Businesses)	Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)	List Names Or Other Companies (includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Or Companies And Percentage Of Voting Securities Held)
16	Donald Kent Peterson Naples, FL	Retired	Trustee (TIAA Board of Trustees)	Director (TIAA-CREF Trust Company, FSB)	Member of the Board (Barnstein Fund); Trustee Emeritus (Worcester Polytechnic Institute); Member of the Committee (Economic Development); Investor with advisory role but not controlling partner (Shift Networks, LLC)	None	None	Jeanne M Peterson 2008 Trust; Daniel T Peterson 2008 Trust; DLT LLC; Donchall LLC; Donchall36 LLC; UBA-DC Team LLC
17	Ronald Richard Pressman New York, NY	N/A	Executive Vice President (TIAA); Chief Executive Officer (Institutional Financial Services TIAA)	Chief Executive Officer, President, and Manager (TIAA-CREF Redwood, LLC); Manager (Kaspick & Company, LLC); Director (Covariance Capital Management, Inc.)	Executive Vice President (College Retirement Equity Funds); Executive Vice President (TIAA-CREF Funds); Executive Vice President (TIAA Separate Account VA-1 (VA-1)); Executive Vice President (TIAA-CREF Life Funds); Director (Aspen Insurance Holdings, Ltd.); Trustee (Hamilton College)	None	None	N/A
18	Sidney Allen Ribeiro Bethesda, MD	College Professor	Trustee (TIAA Board of Trustees)	N/A	Professor of Communications (Howard University); Member of the Board (Worthington Industries); Board member of World Affairs Council – Washington, DC	None	None	N/A
19	Dorothy Kathryn Robinson Hamden, CT	Senior Counselor to the College President	Trustee (TIAA Board of Trustees)	Director (TIAA-CREF Trust Company, FSB)	Senior Counselor to the President (Yale University); Trustee (Yale Southern Observatory, Inc.); Trustee (Yale University Press, London); Trustee, Director, (Youth Rights Media, Inc.); Counsel (KL Gates)	None	None	Trustee of certain family trusts and beneficiary or remainder beneficiary of certain of them
20	David Lloyd Sheelatz Buffton, SC	Retired	Trustee (TIAA Board of Trustees)	Director (TIAA-CREF Trust Company, FSB)	Trustee of certain family trusts Director (Pitney Bowes); Director (Hershey)	None	None	N/A
21	Olha Thomas Spriggs III Denver, CO	N/A	Executive Vice President & Chief Human Resources Officer (TIAA)	Director (TIAA-CREF Trust Company, FSB)	Executive Vice President (College Retirement Equity Funds); Executive Vice President (TIAA-CREF Funds); Executive Vice President (TIAA-CREF Life Funds); Executive Vice President (TIAA Separate Account VA-1 (VA-1)); Non-board member (The Pinnacle Assurance Board of Directors' Compensation Committee)	None	None	N/A
22	Ronald Lurie Thompson Charleston, SC	Retired	Chairman (TIAA Board of Trustees)	N/A	Senior independent director (Fiat Chrysler Automobiles); Director (Medical University of South Carolina Foundation); Member of Advisory Board (Plymouth Ventures Partnership II); Trustee (Washington University in St. Louis)	None	None	N/A

Form FR Y-6
Teachers Insurance and Annuity Association of America ("TIAA")
TIAA Board of Trustees and Executive Management
Fiscal Year Ending December 31, 2015

Report Item 4: Insiders
 (1) (2) (3)(X)(b)(c), and (4)(X)(b)(c)

	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)
23	<p>Name: Maria Tenda City, State: Lawrenceville, NJ Country: USA Principal Occupation if Other Than With TIAA: College professor Title & Position with TIAA: Trustee (TIAA Board of Trustees)</p>			<p>Title & Position with Subsidiaries (Include names of subsidiaries): N/A</p>	<p>Title & Position With Other Businesses (Include Names Of Other Businesses): The Maurice P. During '22 Professor in Demographic Studies (Princeton University); Margaret Olivia Sage Visiting Research Scholar (Russell Sage Foundation); Trustee (Jacobs Foundation of Switzerland); Trustee (Alfred P. Sloan Foundation); Member of the Research Advisory Committees (American Education Research Association); Member (President's Advisory Commission on Educational Excellence for Hispanics); Member of Advisory OCI Committee (The Mellon Foundation Our Compelling Interest); The National Research Council Panel on the Economic and Fiscal Consequences of Immigration; Board member (Population Reference Bureau); Member (the National Academy of Education)</p>	None	None	N/A
24	<p>Name: Edward Dinnage Van Dolan City, State: Rye, NY Country: USA Principal Occupation if Other Than With TIAA: N/A Title & Position with TIAA: Executive Vice President (TIAA); President of Retirement/Individual Financial Services (TIAA)</p>			<p>Title & Position with Subsidiaries (Include names of subsidiaries): Chairman of the Board & President (CT Holdings, Inc.); Director (Covance Capital Management, Inc.); Manager (TIAA-CREF Redwood, LLC)</p>	<p>Executive Vice President (College Retirement Equity Funds); Executive Vice President (TIAA-CREF Funds); Executive Vice President (TIAA-CREF Life Funds); Executive Vice President (TIAA Separate Account VA-1 (VA-1))</p>	None	None	N/A
25	<p>Name: Paul Joseph Van Heest, Jr. City, State: Marlboro, NJ Country: USA Principal Occupation if Other Than With TIAA: N/A Title & Position with TIAA: Executive Vice President (TIAA)</p>			<p>Title & Position with Subsidiaries (Include names of subsidiaries): Vice President (TIAA-CREF Redwood, LLC); Director (TIAA-CREF Tullion Financing, Inc.)</p>	N/A	None	None	N/A
26	<p>Name: Constance Kruse Weaver City, State: West Hartford, CT Country: USA Principal Occupation if Other Than With TIAA: N/A Title & Position with TIAA: Executive Vice President, Chief Marketing Officer (TIAA)</p>			<p>Title & Position with Subsidiaries (Include names of subsidiaries): Director (Westchester Group Investment Management, Inc.); Director (Westchester Group Investment Management Holding Company)</p>	<p>Executive Vice President, College Retirement Equities Fund); Executive Vice President (TIAA Separate Account VA-1 (VA-1)); 1) Executive Vice President (TIAA-CREF Funds); Executive Vice President (TIAA-CREF Life Funds); Member and Board of Governors (Hartford Hospital); Trustee (University of St. Joseph); Advisory Board (Yale University, The Center for Customer Insights); (The Advertising Council); Board of Directors (University of Connecticut Foundation); Board of Directors (Development & Human Resources Committees); Board of Directors (Connecticut Women's Hall of Fame); Board of Directors (The Bushnell Theater)</p>	None	None	N/A

FORM FR Y-6
Teachers Insurance and Annuity Association of America ("TIAA")
TIAA Board of Trustees and Executive Management
Fiscal Year Ending December 31, 2015

Report Item 4: Insiders (1), (2), (3)(a)(X)(c), and (4)(a)(X)(c)									
	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)	
Name	City, State	Country	Principal Occupation if Other Than With TIAA	Title & Position with TIAA	Title & Position with Subsidiaries (include names of subsidiaries)	Title & Position with Other Businesses (include Names Of Other Businesses)	Percentage of Voting Shares in TIAA	Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)	List Names Of Other Companies (includes Partnerships) If 25% Or More Of Voting Securities Are Held (List Names Of Companies And Percentage Of Voting Securities Held)
27 Virginia Mary Wilson	NEW YORK, NY	USA	N/A	Executive Vice President (TIAA Board of Overseers); Executive Vice President & Chief Financial Officer (TIAA)	Director, Executive Vice President & Chief Financial Officer (TCT Holdings, Inc.); Executive Vice President (TIAA Asset Management Finance Company, LLC) Executive Vice President (TIAA Asset Management LLC) Executive Vice President & Chief Financial Officer (TIAA Global Equity Income, LLC) Executive Vice President (TIAA-CREF Asset Management LLC); Executive Vice President & Chief Financial Officer (TIAA Global Equity Income, LLC); Executive Vice President (TIAA-CREF Asset Management LLC); Executive Vice President & Chief Financial Officer (TIAA Global Equity Income, LLC); Manager and Executive Vice President, Chief Financial Officer (TIAA-CREF Redwood, LLC)	Executive Vice President & Chief Financial Accounting Officer (College Retirement Equities Fund); Director (Los Angeles Child Guidance Clinic); Trustee and Vice Chair (Catholic Charities New York)	None	None	Trusts established for my immediate family's estate planning purposes
28 James Chambers	Mendham NJ	USA	President and Chief Executive Officer (Weight Watchers International, Inc.)	Trustee (TIAA Board of Trustees)	N/A	President and Chief Executive Officer (Weight Watchers International, Inc.); Director (Bigdote Inc)	None	None	N/A
29 Kim Sharan	Bonita Springs, FL	USA	Founder and CEO (Kim M. Sharan, LLC)	Trustee (TIAA Board of Trustees)	N/A	Founder and CEO (Kim M. Sharan, LLC); Board member (Partner Here); Advisory Board member (Yax); National Board- Board of Directors (Girls Inc.); Member (Women's Forum New York and The Committee of 200); Consultant/Advisor (Manulife Asia and Manulife Canadian Division)	None	None	N/A
30 Alice Hocking	Mahopac, NY	USA	N/A	Executive Vice President (TIAA)	N/A	N/A	None	None	N/A
31 Glenn Richter	Chicago, IL	USA	N/A	Executive Vice President (TIAA)	Chief Operating Officer - Nuveen Investments	N/A	None	None	N/A
32 Keith Morgan	Scarsdale, NY	USA	N/A	Executive Vice President and Chief Legal Officer (TIAA)	N/A	Vice President (College Retirement Equities Fund); Trustee (The Masters School)	None	None	N/A
33 Rahul Merchant	Scotts Plains, NJ	USA	N/A	Executive Vice President and Chief Information Officer (TIAA)	N/A	N/A	None	None	N/A

Form FR Y-6
TCT Holdings, Inc. Board and President
Fiscal Year Ending December 31, 2015

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

	(1)	(2)	(3)(a)	(3)(b)	(3)(c)	(4)(a)	(4)(b)	(4)(c)	
Name	City, State	Country	Principal Occupation If Other Than With TCT Holdings, Inc.	Title & Position with TCT Holdings, Inc.	Title & Position with Subsidiaries (include names of subsidiaries)	Title & Position with Other Businesses (include Names Of Other Businesses)	Percentage of Voting Shares in TCT Holdings, Inc.	Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)	List Names Of Other Companies (includes Partnerships) if 25% Or More Of Voting Securities Are Held (List Names Of Companies And Percentage Of Voting Securities Held)
Edward D. Van Doisen	Rye, NY	USA	Executive Vice President (TIAA); President of Retirement Individual Financial Services (TIAA)	Chairman of the Board & President	Director (Governance Capital Management, Inc.); Manager (TIAA-CREF Redwood, LLC)	Executive Vice President (College Retirement Equity Funds); Executive Vice President (TIAA-CREF Funds); Executive Vice President (TIAA-CREF Life Funds); Executive Vice President (TIAA Separate Account VA-1 (VA-1))	None	None	N/A
Virginia M. Wilson	NEW YORK, NY	USA	Executive Vice President (TIAA Board of Overseers); Executive Vice President & Chief Financial Officer (TIAA)	Director, Executive Vice President & Chief Financial Officer	Executive Vice President (TIAA Asset Management Finance Company, LLC); Executive Vice President (TIAA Asset Management LLC); Executive Vice President & Chief Financial Officer (TIAA Global Equity Income, LLC); Executive Vice President (TIAA-CREF Asset Management LL.); Executive Vice President & Chief Financial Officer (TIAA Global Equity Income, LLC); Manager and Executive Vice President, Chief Financial Officer (TIAA-CREF Redwood, LLC)	Executive Vice President & Chief Financial Officer & Principal Accounting Officer (College Retirement Equities Fund); Director (Los Angeles Child Guidance Clinic); Trustee and Vice Chair (Catholic Charities New York)	None	None	Trusts established for my immediate family's estate planning purposes