Termination Report | U.S. Office of Government Ethics; 5 C.F.R. part 2634 | Form Approved: OMB No. (3209-0001) (Updated Nov. 2021) **Executive Branch Personnel** Public Financial Disclosure Report (OGE Form 278e) Filer's Information Chatterji, Aaron Chief Economist (IPA), Department of Commerce Date of Termination: 09/30/2022 Other Federal Government Positions Held During the Preceding 12 Months: None Electronic Signature - I certify that the statements I have made in this form are true, complete and correct to the best of my knowledge. /s/ Chatterji, Aaron [electronically signed on 10/31/2022 by Chatterji, Aaron in Integrity.gov] Agency Ethics Official's Opinion - On the basis of information contained in this report, I conclude that the filer is in compliance with applicable laws and regulations (subject to any comments below). /s/ Jacobi, Will, Certifying Official [electronically signed on 11/02/2022 by Jacobi, Will in Integrity.gov] Other review conducted by

U.S. Office of Government Ethics Certification

Data Revised 11/02/2022

1. Filer's Positions Held Outside United States Government

#	ORGANIZATION NAME	CITY, STATE	ORGANIZATION TYPE	POSITION HELD	FROM	ТО
1	Duke University	Durham, North Carolina	University/Colleg e	Professor	7/2006	Present
2	Chatterji Strategy LLC	Durham, North Carolina	Limited Liability Company	Member	4/2014	Present

2. Filer's Employment Assets & Income and Retirement Accounts

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
1	Duke University	N/A		Salary	\$682,055
2	Duke University, 403(b) Plan (TIAA):	No			
2.1	TIAA Traditional	N/A	\$50,001 - \$100,000		None (or less than \$201)
2.2	CREF Stock	Yes	\$100,001 - \$250,000		None (or less than \$201)
2.3	CREF Growth	Yes	\$250,001 - \$500,000		None (or less than \$201)
2.4	CREF Global Equities	Yes	\$50,001 - \$100,000		None (or less than \$201)
2.5	TIAA Real Estate	N/A	\$50,001 - \$100,000		None (or less than \$201)
3	Duke University. 403(b) Plan (Fidelity):	No			
3.1	Vanguard Institutional Target Retirement 2040 Fund Institutional Class Shares (VIRSX)	Yes	\$500,001 - \$1,000,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
3.2	Vanguard Institutional Target Retirement 2045 Fund Institutional Class Shares (VITLX)	Yes	\$100,001 - \$250,000		None (or less than \$201)
4	Duke University, 457(b) Plan:	No			
4.1	Vanguard Institutional Target Retirement 2040 Fund Institutional Class Shares (VIRSX)	Yes	\$500,001 - \$1,000,000		None (or less than \$201)
5	US Brokerage Account IRA	No			
5.1	BlackRock Health Sciences Opportunities	Yes	\$15,001 - \$50,000		None (or less than \$201)
6	Chatterji Strategy LLC, US bank (cash) Checking account	N/A	\$1,001 - \$15,000		None (or less than \$201)
7	Honorarium - August 31, 2021	N/A	\$1,001 - \$15,000	Research Honorarium from Korea Advanced Institute of Science and Technology	\$4,050

3. Filer's Employment Agreements and Arrangements

#	EMPLOYER OR PARTY	CITY, STATE	STATUS AND TERMS	DATE
1	Duke University	Durham, North Carolina	Health and life insurance	4/2021
2	Duke University	Durham, North Carolina	I am taking a leave of absence from Duke on an Intergovernmental Personnel Agreement for up to two years. Duke continues to provide contributions to the employer retirement plans.	4/2021
3	Duke University	Durham, North Carolina	I will continue to participate in this defined contribution plan, and the plan sponsor will continue to make contributions.	7/2006

#	EMPLOYER OR PARTY	CITY, STATE	STATUS AND TERMS	DATE
4	Chatterji Strategy LLC	Durham, North Carolina	This is a personal LLC to accept payments from external consulting clients.	4/2014

4. Filer's Sources of Compensation Exceeding \$5,000 in a Year

(N/A) - Not required for this type of report

5. Spouse's Employment Assets & Income and Retirement Accounts

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
1	SAS Institute Inc. (Software sales and services)	N/A		salary, bonus	
2	SAS Institute Inc., 401(k) plan:	No			
2.1	JPMCB SmartRetirement Passive Blend 2045 Fund CF	Yes	\$250,001 - \$500,000		None (or less than \$201)
3	Morgan Stanley IRA	No			
3.1	Lazard Asset Mgmt Intl w/ EM	Yes	\$100,001 - \$250,000		None (or less than \$201)
3.2	Vanguard Emerging Markets ETF	Yes	\$15,001 - \$50,000		None (or less than \$201)
3.3	Vanguard All-World Ex-US	Yes	\$15,001 - \$50,000		None (or less than \$201)

6. Other Assets and Income

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
1	U.S. bank checking/savings account	N/A	\$100,001 - \$250,000	Interest	None (or less than \$201)
2	Ethereum (Coinbase)	N/A	\$250,001 - \$500,000		None (or less than \$201)
3	Briarwood Capital Partners LP	No	\$100,001 - \$250,000	Capital Gains Dividends Interest	\$5,001 - \$15,000
4	Whitecoin LLC (Real Estate Holding Company)	No			
4.1	commercial real estate, Durham, NC	N/A	\$50,001 - \$100,000	Rent or Royalties	None (or less than \$201)
5	Undeveloped land, Durham, NC	N/A	\$100,001 - \$250,000		None (or less than \$201)
6	North Carolina 529 plan - Child 1	Yes			\$15,001 - \$50,000
6.1	Vanguard 500 Index	Yes	\$50,001 - \$100,000		None (or less than \$201)
6.2	Vanguard Growth Index	Yes	\$15,001 - \$50,000		None (or less than \$201)
6.3	Vanguard Total International Stock Index	Yes	\$15,001 - \$50,000		None (or less than \$201)
7	North Carolina 529 plan - Child 2	Yes			\$50,001 - \$100,000
7.1	SPDR S&P 500 ETF Trust (SPY)	Yes	\$15,001 - \$50,000		None (or less than \$201)
7.2	Vanguard Intl Equity Index	Yes	\$1,001 - \$15,000		None (or less than \$201)
8	North Carolina 529 plan - Child 3	Yes			\$15,001 - \$50,000

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
8.1	SPDR S&P 500 ETF Trust (SPY)	Yes	\$15,001 - \$50,000		None (or less than \$201)
8.2	Vanguard Intl Equity Index	Yes	\$1,001 - \$15,000		None (or less than \$201)
9	Morgan Stanley Brokerage Account	No	\$5,000,000	Capital Gains Dividends Interest	\$50,001 - \$100,000
9.1	ClearBridge Aggressive Growth Fund Class A Shares (SHRAX)	Yes	\$50,001 - \$100,000		None (or less than \$201)
9.2	ClearBridge Appreciation Fund Class A Shares (SHAPX)	Yes	\$50,001 - \$100,000		None (or less than \$201)
9.3	ABB Ltd (ABB)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.4	Accenture Plc (ACN)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.5	Adidas AG (ADDYY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.6	Air Liquide ADR (AIQUY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.7	AKZO Nobel NV ADR (AKZOY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.8	Alibaba Group (BABA)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.9	Anglo Amern (NGLOY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.10	Aon Plc (AON)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.11	Autohome (ATHM)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.12	Banco Bradesco (BBD)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.13	Bandai Namco (NCBDY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.14	Barclays PLC ADR (BCS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.15	BP PLC ADS (BP)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.16	Calrsberg AS (CABGY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.17	China Longyuan Pwr(CLPXY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.18	Clarivate PLC (CLVT)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.19	Compagnie Fin (CFRUY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.20	Companhia De Sanemento Basi(SBS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.21	Compass Group (CMPGY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.22	Contl (CTTAY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.23	Daikin Inds (DKILY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.24	DBS Group (DBSDY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.25	Enel Societa (ENLAY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.26	Engie Spons (ENGIY)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.27	ENN Energy (XNGSY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.28	Equinor ASA (EQNR)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.29	Ferguson PLC (FERG)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.30	Fujitsu (FJTSY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.31	Grupo Financiero (GBOOY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.32	Hitachi (HTHIY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.33	ICICI Bank (IBN)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.34	Industria De Diseno (IDEXY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.35	Infineon (IFNNY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.36	KB Financial Group (KB)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.37	Legrand SA (LGRDY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.38	Lojas Renner SA (LRENY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.39	Makita Corp (MKTAY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.40	Medtronic Plc (MDT)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.41	Merck (MKKGY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.42	MR Price Group (MRPLY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.43	Novartis AG (NVS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.44	Pernod Ricard (PRNDY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.45	Ping AN Insurance (PNGAY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.46	Prudential PLC ADR (PUK)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.47	PT BK Mandiri (PPERY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.48	PT Telekomunikasi Indonesia (TLK)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.49	Relx PLC (RELX)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.50	Royal DSM (RDSMY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.51	Ryanair (RYAAY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.52	Safran (SAFRY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.53	Sampo Oyj (SAXPY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.54	Sandvik AB (SDVKY)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.55	Sanofi (SNY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.56	Shimano Inc. (SMNNY)	N/A			None (or less than \$201)
9.57	Suncor Energy (SU)	N/A			None (or less than \$201)
9.58	Suzuki Mtr Corp (SZKMY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.59	Taiwan Semiconductor (TSM)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.60	Telenor ASA (TELNY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.61	Tencent Hldgs (TCEHY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.62	Tesco PLC (TSCDY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.63	Unilever PLC (UL)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.64	Universal Music Group (UNVGY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.65	Vestas Wind Systems (VWDRY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.66	Wolters Kluwer (WTKWY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.67	Volkswagen AG RP PRF (VWAPY)	N/A			None (or less than \$201)
9.68	Allegion Plc (ALLE)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE INC	COME TYPE	INCOME AMOUNT
9.69	Amer Intl GP Inc (AIG)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.70	American Tower Corporation (REIT) (AMT)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.71	ANSYS, Inc. (ANSS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.72	Apollo Global Management (APO)	N/A	Divi	ridends	\$201 - \$1,000
9.73	Apple, Inc. (AAPL)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.74	Aspen Technology, Inc. (AZPN)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.75	Bank of America Corp. (BAC)	N/A	\$1,001 - \$15,000 Divi	ridends	\$201 - \$1,000
9.76	Becton, Dickinson and Company (BDX)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.77	Bentley Sys Inc (BSY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.78	W.R. Berkley Corp. (WRB)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.79	Blackstone Inc (BX)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.80	Boston Properties, Inc. (BXP)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.81	Bright Horizons Family Solutions Inc. (BFAM)	N/A			None (or less than \$201)
9.82	Broadcom, Inc. (AVGO)	N/A	\$1,001 - \$15,000 Div	ridends	\$201 - \$1,000
9.83	CDW Corp. (CDW)	N/A	\$15,001 - \$50,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.84	Charles River Labs (CRL)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.85	Chemed (CHE)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.86	Cisco (CSCO)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.87	Coca Cola (KO)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.88	Comcast Corp (CMCSA)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.89	Cooper Co Inc (COO)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.90	Copart Inc. (CPRT)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.91	Duck Creek Technologies (DCT)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.92	Ecolab Inc. (ECL)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.93	Edison International (EIX)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.94	Elanco Animal Health (ELAN)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.95	Enbridge Inc. (ENB)	N/A	\$1,001 - \$15,000		\$201 - \$1,000
9.96	Equifax (EFX)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.97	Exponent (EXPO)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.98	Fair Isaac and Co (FICO)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.99	Home Depot (HD)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.100	Interactive Brokers Group (IBKR)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.101	Jack Henry and Assoc (JKHY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.102	Johnson and Johnson (J&J)	N/A	\$1,001 - \$15,000		\$201 - \$1,000
9.103	JPMorgan Chase (JPM)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.104	Lennox Intel Inc (LII)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.105	Linde PLC (LIN)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.106	LPL Finl Hlds (LPLA)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.107	Mastercard (MA)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.108	Merck (MRK)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.109	Metlife (MET)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.110	Microsoft (MSFT)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.111	Mondelez Intl (MDLZ)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.112	MSCI Inc	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.113	Nestle (NSRGY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.114	Nextera Energy (NEE)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.115	Nordson CP (NDSN)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.116	Northrop Grumman CP (NOC)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.117	Oracle Corp (ORCL)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.118	Otis Worldwide (OTIS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.119	Pfizer (PFE)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.120	Pioneer Natural Resources (PXD)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.121	PNC FinI (PNC)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.122	Pool Corp (POOL)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.123	PPG Industries (PPG)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.124	Proctor and Gamble (PG)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.125	Public Service Enterprise GP (PEG)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.126	Raytheon (RTX)	N/A	\$15,001 - \$50,000	Dividends	\$201 - \$1,000
9.127	Rollins Inc (ROL)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.128	Sempra (SRE)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.129	Siteone Landscape (SITE)	N/A	\$15,001 - \$50,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.130	Teledyne Tech (TDY)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.131	Teradyne Inc (TER)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.132	Texas Instruments (TXN)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.133	The Scotts Miracle-Gro Company (SMG)	N/A	\$15,001 - \$50,000	Dividends	\$201 - \$1,000
9.134	Thor Industries (THO)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.135	Travelers Companies (TRV)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.136	US Bancorp (USB)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.137	Union Pacific (UNP)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.138	United Parcel Ser (UPS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.139	UnitedHealth (UNH)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.140	Verizon (VZ)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.141	Visa (V)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.142	Vulcan Materials (VMC)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.143	Walt Disney (DIS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.144	Waste Management (WM)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.145	Williams Co (WMB)	N/A	\$1,001 - \$15,000	Dividends	\$201 - \$1,000
9.146	Zebra Tech (ZBRA)	N/A	\$15,001 - \$50,000		None (or less than \$201)
9.147	Zoetis Inc (ZTS)	N/A	\$1,001 - \$15,000		None (or less than \$201)
9.148	lowa ST SPL JOB PROG SPL OBLIG REF REV-A	N/A	\$1,001 - \$15,000	Interest	None (or less than \$201)
9.149	AR GILBERT TWN WTR RES MUN PTY CORP SR LN UTIL SYS REV	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.150	SAN ANTONIO TX INDPT SCH DIST REF PSF-GTD	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.151	CITRUS CNTY FLA CAP IMPT REV REF	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.152	UNIVERSITY NC GREENSBORO REV	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.153	UNION CNTY NC ENTERPRISE SYS REV	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.154	INDIANA ST UNV REVS STUDENT FEE REV-R	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.155	ALABAMA ST PUB SCH AND COLLEGE AUTH IMPT REV REF-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.156	JEA FLA WTR AND SWR SYS REV-A	N/A	\$15,001 - \$50,000	Interest	\$201 - \$1,000
9.157	MECKLENBERG CNTY NC PUB IMPT GENL OBLIG SER-B	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.158	NORTH TEX TWY AUTH REV REF-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.159	HONOLULU HAWAII CITY AND CNTY	N/A	\$15,001 - \$50,000	Interest	\$201 - \$1,000
9.160	NORTH CAROLINA AGRIC AND TECHNICAL UNIV REVS GENL REV-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.161	NEW YORK NY CITY TRANSITIONAL FIN AUTH	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.162	SCIOOTO CTY OH HOS FAC REV REF	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.163	CHARLOTTE NC GENL OBLIG REF-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.164	DENVER COLO CITY AND CNTY SCH DIST NO 1	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.165	MOUNT PLEASANT MICH PUB SCHS SER-I	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.166	ROUND ROCK TEX GENL OBLIG REF	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.167	COLORADO ST HIGHER ED LEASE PUR FING PROG CTFS PARTN REV	N/A	\$15,001 - \$50,000	Interest	\$201 - \$1,000
9.168	MONTANA ST BRD REGENTS HIGHER ED FACS IMPT REV-E	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.169	DURHAM NC OBLIG REV	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.170	NORTH CAROLINA ST LTD OBLIG REV-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.171	WEST TRAVIS CNTY TEX PUB UTL AGY REV REF	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.172	UNIVERSITY NC CHARLOTTE REV-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.173	SOUTH CAROLINA JOBS-ECONOMIC DEV AUTH HOSP REV	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.174	COLORADO ST BLDG EXCELLENT SCHS TODAY CTFS PARTN	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.175	ROUND ROCK TEX INDPT SCH DIST REF-A ID 04-01-21	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.176	INDIANAPOLIS IND WTR SYS FIRST LIEN REV REF-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.177	ALLEN CNTY OHIO HOSP FACS REV-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
9.178	MIAMI-DAD CNTY FLA HEALTH FACS AUTH HOSP REV REF-A	N/A	\$15,001 - \$50,000	Interest	\$201 - \$1,000
9.179	HARRIS CNTY TEX MET TRAN AUTH SALES AND USE TAX	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.180	JEFFERSON CNTY COLO SCH DIST NO R- 001 SER-A	N/A	\$1,001 - \$15,000	Interest	\$201 - \$1,000
9.181	VOLUSIA CNTY FLA SCH BRD CTFS PARTN REV-A	N/A	\$15,001 - \$50,000	Interest	\$201 - \$1,000
10	Vanguard Brokerage Account	No	\$250,001 - \$500,000	Capital Gains Dividends Interest	\$2,501 - \$5,000
10.1	Vanguard Total Stock Market Index Fund ETF Class Shares (VTI)	Yes	\$50,001 - \$100,000		None (or less than \$201)
10.2	Proshares Short S&P500 (SH)	Yes	\$1,001 - \$15,000		None (or less than \$201)
10.3	Vanguard Small-Cap Value Index Fund ETF Class Shares (VBR)	Yes	\$50,001 - \$100,000		None (or less than \$201)
10.4	Vanguard Intermediate-Term Corporate Bond Index Fund ETF Class Shares (VCIT)	Yes	\$15,001 - \$50,000		None (or less than \$201)
10.5	Vanguard FTSE Emerging Markets ETF (VWO)	Yes	\$15,001 - \$50,000		None (or less than \$201)
10.6	Vanguard FTSE All-World ex US Index Fund ETF Shares (VEU)	Yes	\$15,001 - \$50,000		None (or less than \$201)
10.7	Vanguard Extended Market Index Fund ETF Shares (VXF)	Yes	\$1,001 - \$15,000		None (or less than \$201)
10.8	Apple, Inc. (AAPL)	N/A	\$15,001 - \$50,000		None (or less than \$201)
10.9	Southwest Airlines Co. (LUV)	N/A	\$1,001 - \$15,000		None (or less than \$201)

#	DESCRIPTION	EIF	VALUE	INCOME TYPE	INCOME AMOUNT
10.10	The Walt Disney Co. (DIS)	N/A	\$1,001 - \$15,000		None (or less than \$201)

7. Transactions

#	DESCRIPTION	TYPE	DATE	AMOUNT
1	Watsco, Inc. (WSO)	Sale	09/19/2022	\$1,001 - \$15,000
2	Intel Corp. (INTC)	Sale	09/19/2022	\$1,001 - \$15,000
3	Cisco Systems, Inc. (CSCO)	Sale	09/19/2022	\$1,001 - \$15,000
4	Bentley SYS (BSY)	Sale	09/19/2022	\$1,001 - \$15,000
5	Bright Horizons Family Solutions Inc. (BFAM)	Sale	09/19/2022	\$1,001 - \$15,000
6	LCI Industries (LCII)	Sale	09/19/2022	\$1,001 - \$15,000
7	Globus Medical, Inc. (GMED)	Sale	09/19/2022	\$1,001 - \$15,000
8	JP Morgan (JPM)	Sale	09/19/2022	\$1,001 - \$15,000
9	U.S. Bancorp (USB)	Sale	09/19/2022	\$1,001 - \$15,000
10	Comcast Corp. (CMCSA)	Sale	09/19/2022	\$1,001 - \$15,000
_11	Teledyne Technologies, Inc. (TDY)	Sale	09/19/2022	\$1,001 - \$15,000
12	Verizon Communications, Inc. (VZ)	Sale	09/19/2022	\$1,001 - \$15,000
13	SAP AG (SAP)	Sale	09/19/2022	\$1,001 - \$15,000
14	Scotts Miracle-Gro Co. (SMG)	Sale	09/19/2022	\$1,001 - \$15,000
15	Ecolab, Inc. (ECL)	Sale	09/12/2022	\$1,001 - \$15,000
16	Elanco Animal Health, Inc. (ELAN)	Sale	09/09/2022	\$1,001 - \$15,000
17	Citrus CNTY FLA CAP IMPT REV REF	Sale	10/03/2022	\$1,001 - \$15,000

#	DESCRIPTION	TYPE	DATE	AMOUNT
18	U.S. Bancorp (USB)	Sale	10/21/2022	\$1,001 - \$15,000
19	Edison International (EIX)	Sale	10/07/2022	\$1,001 - \$15,000
20	KB Financial (KB)	Sale	11/01/2022	\$1,001 - \$15,000
21	Sanofi (SNY)	Sale	10/21/2022	\$1,001 - \$15,000
22	JP Morgan (JPM)	Purchase	10/24/2022	\$1,001 - \$15,000
23	JP Morgan (JPM)	Purchase	10/20/2022	\$1,001 - \$15,000
24	LCI Industries (LCII)	Purchase	10/19/2022	\$1,001 - \$15,000
25	JP Morgan (JPM)	Purchase	10/19/2022	\$1,001 - \$15,000
26	U.S. Bancorp (USB)	Purchase	10/19/2022	\$1,001 - \$15,000
27	Intel Corp. (INTC)	Purchase	10/19/2022	\$1,001 - \$15,000
28	SAP AG	Purchase	10/19/2022	\$1,001 - \$15,000
29	Bright Horizons Family Solutions Inc. (BFAM)	Purchase	10/19/2022	\$1,001 - \$15,000
30	Cisco Systems, Inc. (CSCO)	Purchase	10/19/2022	\$1,001 - \$15,000
31	Comcast Corp. (CMCSA)	Purchase	10/19/2022	\$1,001 - \$15,000
32	Verizon Communications, Inc. (VZ)	Purchase	10/19/2022	\$1,001 - \$15,000
33	Globus Medical, Inc. (GMED)	Purchase	10/19/2022	\$1,001 - \$15,000
34	Teledyne Technologies, Inc. (TDY)	Purchase	10/19/2022	\$1,001 - \$15,000
35	Watsco, Inc. (WSO)	Purchase	10/19/2022	\$1,001 - \$15,000
36	Bentley Sys (BSY)	Purchase	10/19/2022	\$1,001 - \$15,000
37	New York St Dorm Auth Sales Tax	Purchase	10/24/2022	\$1,001 - \$15,000

8. Liabilities

None

9. Gifts and Travel Reimbursements

None

Endnotes

Summary of Contents

1. Filer's Positions Held Outside United States Government

Part 1 discloses positions that the filer held at any time during the reporting period (excluding positions with the United States Government). Positions are reportable even if the filer did not receive compensation.

This section does not include the following: (1) positions with religious, social, fraternal, or political organizations; (2) positions solely of an honorary nature; (3) positions held as part of the filer's official duties with the United States Government; (4) mere membership in an organization; and (5) passive investment interests as a limited partner or non-managing member of a limited liability company.

2. Filer's Employment Assets & Income and Retirement Accounts

Part 2 discloses the following:

- Sources of earned and other non-investment income of the filer totaling more than \$200 during the reporting period (e.g., salary, fees, partnership share, honoraria, scholarships, and prizes)
- Assets related to the filer's business, employment, or other income-generating activities (1) that ended the reporting period with a value greater than \$1,000 or (2) from which more than \$200 in income was received during the reporting period (e.g., equity in business or partnership, stock options, retirement plans/accounts and their underlying holdings as appropriate, deferred compensation, and intellectual property, such as book deals and patents)

This section does not include assets or income from United States Government employment or assets that were acquired separately from the filer's business, employment, or other income-generating activities (e.g., assets purchased through a brokerage account). Note: The type of income is not required if the amount of income is \$0 - \$200 or if the asset qualifies as an excepted investment fund (EIF).

3. Filer's Employment Agreements and Arrangements

Part 3 discloses agreements or arrangements that the filer had during the reporting period with an employer or former employer (except the United States Government), such as the following:

- Future employment
- Leave of absence
- Continuing payments from an employer, including severance and payments not yet received for previous work (excluding ordinary salary from a current employer)
- Continuing participation in an employee welfare, retirement, or other benefit plan, such as pensions or a deferred compensation plan
- Retention or disposition of employer-awarded equity, sharing in profits or carried interests (e.g., vested and unvested stock options, restricted stock, future share of a company's profits, etc.)

4. Filer's Sources of Compensation Exceeding \$5,000 in a Year

Part 4 discloses sources (except the United States Government) that paid more than \$5,000 in a calendar year for the filer's services during any year of the reporting period.

The filer discloses payments both from employers and from any clients to whom the filer personally provided services. The filer discloses a source even if the source made its payment to the filer's employer and not to the filer. The filer does not disclose a client's payment to the filer's employer if the filer did not provide the services for which the client is paying.

5. Spouse's Employment Assets & Income and Retirement Accounts

Part 5 discloses the following:

- Sources of earned income (excluding honoraria) for the filer's spouse totaling more than \$1,000 during the reporting period (e.g., salary, consulting fees, and partnership share)
- Sources of honoraria for the filer's spouse greater than \$200 during the reporting period
- Assets related to the filer's spouse's employment, business activities, other income-generating activities (1) that ended the reporting period with a value greater than \$1,000 or (2) from which more than \$200 in income was received during the reporting period (e.g., equity in business or partnership, stock options, retirement plans/accounts and their underlying holdings as appropriate, deferred compensation, and intellectual property, such as book deals and patents)

This section does not include assets or income from United States Government employment or assets that were acquired separately from the filer's spouse's business, employment, or other income-generating activities (e.g., assets purchased through a brokerage account). Note: The type of income is not required if the amount of income is \$0 - \$200 or if the asset qualifies as an excepted investment fund (EIF). Amounts of income are not required for a spouse's earned income (excluding honoraria).

6. Other Assets and Income

Part 6 discloses each asset, not already reported, (1) that ended the reporting period with a value greater than \$1,000 or (2) from which more than \$200 in investment income was received during the reporting period. For purposes of the value and income thresholds, the filer aggregates the filer's interests with those of the filer's spouse and dependent children.

This section does not include the following types of assets: (1) a personal residence (unless it was rented out during the reporting period); (2) income or retirement benefits associated with United States Government employment (e.g., Thrift Savings Plan); and (3) cash accounts (e.g., checking, savings, money market accounts) at a single financial institution with a value of \$5,000 or less (unless more than \$200 in income was received). Additional exceptions apply. Note: The type of income is not required if the amount of income is \$0 - \$200 or if the asset qualifies as an excepted investment fund (EIF).

7. Transactions

Part 7 discloses purchases, sales, or exchanges of real property or securities in excess of \$1,000 made on behalf of the filer, the filer's spouse or dependent child during the reporting period.

This section does not include transactions that concern the following: (1) a personal residence, unless rented out; (2) cash accounts (e.g., checking, savings, CDs, money market accounts) and money market mutual funds; (3) Treasury bills, bonds, and notes; and (4) holdings within a federal Thrift Savings Plan account. Additional exceptions apply.

8. Liabilities

Part 8 discloses liabilities over \$10,000 that the filer, the filer's spouse or dependent child owed at any time during the reporting period.

This section does not include the following types of liabilities: (1) mortgages on a personal residence, unless rented out (limitations apply for PAS filers); (2) loans secured by a personal motor vehicle, household furniture, or appliances, unless the loan exceeds the item's purchase price; and (3) revolving charge accounts, such as credit card balances, if the outstanding liability did not exceed \$10,000 at the end of the reporting period. Additional exceptions apply.

9. Gifts and Travel Reimbursements

This section discloses:

- Gifts totaling more than \$415 that the filer, the filer's spouse, and dependent children received from any one source during the reporting period.
- Travel reimbursements totaling more than \$415 that the filer, the filer's spouse, and dependent children received from any one source during the reporting period.

For purposes of this section, the filer need not aggregate any gift or travel reimbursement with a value of \$166 or less. Regardless of the value, this section does not include the following items: (1) anything received from relatives; (2) anything received from the United States Government or from the District of Columbia, state, or local governments; (3) bequests and other forms of inheritance; (4) gifts and travel reimbursements given to the filer's agency in connection with the filer's official travel; (5) gifts of hospitality (food, lodging, entertainment) at the donor's residence or personal premises; and (6) anything received by the filer's spouse or dependent children totally independent of their relationship to the filer. Additional exceptions apply.

Privacy Act Statement

Title I of the Ethics in Government Act of 1978, as amended (the Act), 5 U.S.C. app. § 101 et seq., as amended by the Stop Trading on Congressional Knowledge Act of 2012 (Pub. L. 112-105) (STOCK Act), and 5 C.F.R. Part 2634 of the U. S. Office of Government Ethics regulations require the reporting of this information. Failure to provide the requested information may result in separation, disciplinary action, or civil action. The primary use of the information on this report is for review by Government officials to determine compliance with applicable Federal laws and regulations. This report may also be disclosed upon request to any requesting person in accordance with sections 105 and 402(b)(1) of the Act or as otherwise authorized by law. You may inspect applications for public access of your own form upon request. Additional disclosures of the information on this report may be made: (1) to any requesting person, subject to the limitation contained in section 208(d)(1) of title 18, any determination granting an exemption pursuant to sections 208(b)(1) and 208(b)(3) of title 18: (2) to a Federal. State, or local law enforcement agency if the disclosing agency becomes aware of violations or potential violations of law or regulation; (3) to a source when necessary to obtain information relevant to a conflict of interest investigation or determination; (4) to the National Archives and Records Administration or the General Services Administration in records management inspections; (5) to the Office of Management and Budget during legislative coordination on private relief legislation; (6) when the disclosing agency determines that the records are arguably relevant to a proceeding before a court, grand jury, or administrative or adjudicative body, or in a proceeding before an administrative or adjudicative body when the adjudicator determines the records to be relevant to the proceeding: (7) to reviewing officials in a new office, department or agency when an employee transfers or is detailed from one covered position to another, a public financial disclosure report and any accompanying documents, including statements notifying an employee's supervising ethics office of the commencement of negotiations for future employment or compensation or of an agreement for future employment or compensation; (8) to a Member of Congress or a congressional office in response to an inquiry made on behalf of and at the request of an individual who is the subject of the record: (9) to contractors and other non-Government employees working on a contract, service or assignment for the Federal Government when necessary to accomplish a function related to this system of records; (10) on the OGE Website and to any person, department or agency, any written ethics agreement, including certifications of ethics agreement compliance, filed with OGE by an individual nominated by the President to a position requiring Senate confirmation; (11) on the OGE Website and to any person, department or agency, any certificate of divestiture issued by OGE; (12) on the OGE Website and to any person, department or agency, any waiver of the restrictions contained in Executive Order 13770 or any superseding executive order; (13) to appropriate agencies, entities and persons when there has been a suspected or confirmed breach of the system of records, the agency maintaining the records has determined that there is a risk of harm to individuals, the agency, the Federal Government, or national security, and the disclosure is reasonably necessary to assist in connection with the agency's efforts to respond to the suspected or confirmed breach or to prevent, minimize, or remedy such harm; and (14) to another Federal agency or Federal entity, when the agency maintaining the record determines that information from this system of records is reasonably necessary to assist the recipient agency or entity in responding to a suspected or confirmed breach or in preventing, minimizing, or remedying the risk of harm to individuals, the recipient agency or entity, the Federal Government, or national security. See also the OGE/GOVT-1 executive branch-wide Privacy Act system of records.

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