

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ACTIVATE GLOBAL, INC. 2150 SHATTUCK AVENUE, SUITE 300 BERKELEY, CA 94704	NONE PC	TO SUPPORT RESOURCES AND FELLOWSHIPS FOR SCIENTIST-ENTREPRENEURS TO TRANSFORM THEIR DISCOVERIES INTO APPLICATIONS THAT WILL BENEFIT SOCIETY.	625,000.
AID FOR THREATENED WILDLIFE - FRANKFURT ZOOLOGICAL CALLE LOS CIPRESSES H-21 RESIDENCIAL CUSCO PERU	NONE PC	TO IMPROVE CONSOLIDATION CONDITIONS FOR SIX PROTECTED AREAS AND INDIGENOUS LANDS IN THE UPPER PURUS MOSAIC (5.8 MILLION HECTARES).	911,769.
ALIANCA DA TERRA AVENIDA DAS INDUSTRIAS, 601, QD 151 GOIANIA GO BRAZIL 74.670-600	NONE PC	TO SUPPORT TRAINING AND EXPANSION OF A NETWORK OF LAND MANAGERS TO ADDRESS INCREASED FIRE-RISK AND IMPACTS IN BRAZIL.	250,000.
ALTARUM INSTITUTE 3520 GREEN COURT #300 ANN ARBOR, MI 48105	NONE PC	TO DEVELOP A METHOD FOR MONITORING AND MANAGING THE SUPPLY AND QUALITY OF SUPPORTIVE SERVICES FOR HIGH-NEED FRAIL ELDERLY LIVING IN A PARTICULAR GEOGRAPHIC COMMUNITY BY AGGREGATING CARE PLANS.	373,500.
AMERICAN ACAD. OF HOSPICE AND PALLIATIVE MEDICINE 8735 W HIGGINS ROAD SUITE 300 CHICAGO, IL 60631	NONE PC	TO SUPPORT THE DEVELOPMENT AND LAUNCH OF A SINGLE UNIFIED NATIONAL PALLIATIVE CARE REGISTRY TO ADVANCE QUALITY IMPROVEMENT AND ACCOUNTABILITY FOR SERIOUS ILLNESS CARE.	891,603.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE NW WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF PHD-LEVEL SCIENCE AND TECHNOLOGY POLICY FELLOWS IN THE WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY AND OFFICES RELATED TO THE JUSTICE FUNCTIONS OF THE U.S. GOVERNMENT TO BRING MORE SCIENCE INTO DECISION-MAKING.	350,145.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

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AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE NW WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF THE USE OF SCIENTIFICALLY SOUND EVIDENCE FOR PUBLIC ISSUES AND DECISION MAKING.	300,000.
AMERICAN BOARD OF MEDICAL SPECIALTIES RESEARCH 353 NORTH CLARK STREET, SUITE 1400 CHICAGO, IL 60654	NONE SO I	TO SUPPORT EARLY-CAREER VISITING SCHOLARS CONDUCTING RESEARCH ON IMPROVING CLINICIAN DIAGNOSTIC PERFORMANCE AT THE AMERICAN BOARD OF MEDICAL SPECIALTIES.	50,000.
AMERICAN COLLEGE OF RADIOLOGY 1891 PRESTON WHITE DRIVE RESTON, VA 20191	NONE PC	TO SUPPORT THE DEVELOPMENT OF A CLINICAL QUALITY MEASURE TO IMPROVE THE FOLLOW-UP OF INCIDENTAL RADIOLOGY IMAGES AND IMPROVE EARLY DIAGNOSIS OF CANCER.	341,322.
AMERICAN GEOPHYSICAL UNION 2000 FLORIDA AVENUE NW WASHINGTON, DC 20009	NONE PC	TO SUPPORT SCIENCE-COMMUNITY PARTNERSHIPS IN EIGHT COMMUNITIES AROUND THE UNITED STATES, EACH OF WHICH WILL CONNECT SCIENTISTS TO COMMUNITIES TACKLING SCIENCE-RELATED ISSUES.	770,000.
AMERICAN PHYSICAL SOCIETY 1 PHYSICS ELLIPSE COLLEGE PARK, MD 20740-3844	NONE PC	TO ENABLE TRAVEL GRANTS, MEETINGS, AND LECTURES WHICH AIM TO DEVELOP NEW APPROACHES FOR ADVANCING FUNDAMENTAL PHYSICS.	345,085.
ANNUAL REVIEWS INC. 4139 EL CAMINO WAY PALO ALTO, CA 94306	NONE PC	IN SUPPORT OF THE CONTINUED DEVELOPMENT OF KNOWABLE MAGAZINE, A DIGITAL MAGAZINE THAT COMMUNICATES SCIENTIFIC KNOWLEDGE IN A NEW AND MORE ACCESSIBLE WAY.	1,200,000.

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ARIZONA BOARD OF REGENTS 1630 E UNIVERSITY BOULEVARD TUCSON, AZ 85721	NONE GOV	IN SUPPORT OF THE COLLABORATIVE PROJECT 'UNDERSTANDING BIOLOGICAL SYSTEMS USING RESONATOR-MEDIATED SINGLE-MOLECULE RAMAN DETECTION AND SPECTROSCOPY' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
ARIZONA BOARD OF REGENTS DEPARTMENT OF PHYSICS 1118 E FOURTH STREET TUCSON, AZ 85721	NONE GOV	IN SUPPORT OF A PROJECT TO IMPROVE THE TIME RESOLUTION OF ELECTRON MICROSCOPY IN ORDER TO VISUALIZE CHEMISTRY IN REAL TIME.	342,000.
ARIZONA BOARD OF REGENTS SPONSORED PROJECTS SERVICES, PO BOX 3308 TUCSON, AZ 85722-3308	NONE GOV	IN SUPPORT OF ENSURING MARINE MICROBE SEQUENCE DATA IS INTEGRATED INTO A FEDERALLY SUPPORTED RESOURCE AND ACCESSIBLE TO THE BROADER SCIENTIFIC COMMUNITY.	237,320.
ARIZONA BOARD OF REGENTS 1630 E UNIVERSITY BLVD TUCSON, AZ 85721	NONE GOV	TO DESIGN AND FABRICATE A NOVEL ULTRALIGHT LENS FOR USE IN FUTURE LARGE APERTURE WIDE-FIELD SPACE TELESCOPES.	433,333.
ARIZONA STATE UNIVERSITY GOLDWATER CENTER #208 650 E TYLER MALL TEMPE, AZ 85280	NONE GOV	IN SUPPORT OF RESEARCH AND DEVELOPMENT OF AN AEROSOL-BASED METHOD TO TRANSFORM RAW NANOMATERIALS INTO TUNABLE STRUCTURED COATINGS.	225,000.

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ARIZONA STATE UNIVERSITY FOUNDATION FOR A NEW AMER PO BOX 2260 TEMPE, AZ 85280-2260	NONE PC	IN SUPPORT OF THE COLLABORATIVE PROJECT 'WHAT DOES SELF LOOK LIKE' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
ARIZONA STATE UNIVERSITY FOUNDATION FOR A NEW AMER PO BOX 2260 TEMPE, AZ 85280-2260	NONE PC	IN SUPPORT OF RESEARCH TO GAIN A DEEPER UNDERSTANDING OF ALLOSTERY, THE REGULATION OF ACTIVE SITES OR LIGAND BINDING SITES WITHIN A PROTEIN BY DISTANT RESIDUES, USING HIGH-THROUGHPUT MICROFLUIDICS AND MOLECULAR DYNAMIC SIMULATIONS.	243,430.
ASSOCIATED UNIVERSITIES, INC. 155 OBSERVATORY ROAD, PO BOX 2 GREEN BANK, WV 24944	NONE PC	TO SUPPORT THE CONSTRUCTION OF A NEW ULTRA-WIDEBAND RADIO RECEIVER THAT WILL IMPROVE CAPABILITIES TO DETECT LOW-FREQUENCY GRAVITATIONAL WAVES.	130,351.
ASSOCIATION OF SCIENCE-TECHNOLOGY CENTERS INC. 818 CONNECTICUT AVENUE NW 7TH FLOOR WASHINGTON, DC 20006	NONE PC	IN SUPPORT OF LANDSCAPE ANALYSIS, CONVENING, AND FIELD BUILDING TO ADVANCE COMMUNITY SCIENCE AS A SCIENCE ENGAGEMENT STRATEGY.	439,000.
BAYLOR COLLEGE OF MEDICINE ONE BAYLOR PLAZA HOUSTON, TX 77030-3411	NONE PC	TO SUPPORT THE DEVELOPMENT OF CLINICAL QUALITY MEASURES TO IMPROVE DIAGNOSIS OF CANCER.	520,162.

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BAYLOR COLLEGE OF MEDICINE ONE BAYLOR PLAZA HOUSTON, TX 77030	NONE PC	TO SUPPORT THE CREATION OF A PROGRAM OF DIAGNOSTIC SAFETY SURVEILLANCE AND IMPROVEMENT WITHIN A LARGE INTEGRATED HEALTH SYSTEM.	1,213,857.
BAYLOR COLLEGE OF MEDICINE ONE BAYLOR PLAZA HOUSTON, TX 77030-3411	NONE PC	IN SUPPORT OF THE DEVELOPMENT AND DISSEMINATION OF A CHECKLIST GUIDANCE DOCUMENT TO ASSIST HEALTH CARE ORGANIZATIONS IN THEIR EFFORTS TO PROMOTE CORRECT AND TIMELY DIAGNOSIS.	307,602.
BETH ISRAEL DEACONESS MEDICAL CENTER, INC. 330 BROOKLINE AVENUE BOSTON, MA 02215	NONE PC	TO SUPPORT THE OPENNOTES TEAM IN THEIR EFFORTS TO INCREASE THE NUMBER OF PATIENTS AND CAREGIVERS WITH ACCESS TO THEIR CLINICAL NOTES.	950,000.
BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN 2420 ENGINEERING HALL MADISON, WI 53706	NONE GOV	IN SUPPORT OF THE INVENTION OF AN ELECTRIC MOTOR BASED ON ORGANIC DIELECTRICS.	225,000.
BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN 21 NORTH PARK STREET, SUITE 6401 MADISON, WI 53715	NONE GOV	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. CHANG-BEOM EOM AIMING TO CONTROL STOICHIOMETRY AND POINT DEFECTS IN COMPLEX OXIDE EPITAXIAL THIN FILM MATERIALS AND HETEROSTRUCTURE INTERFACES.	570,000.
BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN 2320 CHAMBERLIN HALL MADISON, WI 53706	NONE GOV	IN SUPPORT OF RESEARCH AND DEVELOPMENT OF A SIMPLE AND LOW-COST WAY OF PRODUCING MONOCHROMATIC MID-IR RADIATION THAT WILL ALLOW FOR THE CREATION OF A NEW GENERATION OF SENSORS THAT CAN DETECT CHEMICALS IN LOCAL ENVIRONMENTS BY MEASURING THEIR ABSORPTION PROFILE.	225,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

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BOSTON COLLEGE TRUSTEES 2609 BEACON STREET MERKERT CENTER CHESTNUT HILL, MA 02467-3860	NONE PC	IN SUPPORT OF THE COLLABORATIVE PROJECT 'FINDING MITOCHONDRIAL MEMORY' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
BOSTON MEDICAL CENTER CORPORATION 660 HARRISON AVENUE, 2ND FLOOR BOSTON, MA 02118-2908	NONE PC	TO SUPPORT THE WORK OF PATIENT AND FAMILY ENGAGEMENT EARLY-CAREER INVESTIGATOR, ANDREA SPENCER, IN HER PROJECT TO DEVELOP AN EFFECTIVE ATTENTION DEFICIT HYPERACTIVITY DISORDER FAMILY ENGAGEMENT INTERVENTION FOR THE PRIMARY CARE SETTING.	164,456.
BROAD INSTITUTE INC. 415 MAIN STREET CAMBRIDGE, MA 02142	NONE PC	TO SUPPORT THE DEVELOPMENT AND PILOT TESTING OF A GAME-BASED SIMULATION OF A DISEASE OUTBREAK DESIGNED FOR SCIENCE LEARNING OUTCOMES.	500,000.
BSCS SCIENCE LEARNING 5415 MARK DABLING BOULEVARD COLORADO SPRINGS, CO 80918	NONE PC	IN SUPPORT OF PLATFORM DEVELOPMENT FOR CITIZEN AND COMMUNITY SCIENCE PROJECTS AND TOOLS FOR ANALYZING DATA, SHARING FINDINGS AND PARTICIPATING IN SCIENTIFIC INQUIRY.	500,000.
CALIFORNIA ACADEMY OF SCIENCES 55 MUSIC CONCOURSE DRIVE, GOLDEN GATE PARK SAN FRANCISCO, CA 94118	NONE PC	IN SUPPORT OF THE ADDITION OF NEW CAPABILITIES ON THE INATURALIST PLATFORM THAT CREATE OPPORTUNITIES FOR STUDENTS, TEACHERS, AND COMMUNITIES TO PARTICIPATE IN EXTENDED SCIENTIFIC RESEARCH.	326,008.

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CALIFORNIA COUNCIL ON SCIENCE AND TECHNOLOGY 1130 K STREET, SUITE 280 SACRAMENTO, CA 95814	NONE PC	IN SUPPORT OF EFFORTS TO ENSURE THE LONG-TERM FINANCIAL STABILITY AND IMPACT OF THE CALIFORNIA COUNCIL ON SCIENCE AND TECHNOLOGY'S SCIENCE AND TECHNOLOGY POLICY FELLOWSHIP PROGRAM.	1,400,000.
CALIFORNIA COUNCIL ON SCIENCE AND TECHNOLOGY 1130 K STREET, SUITE 280 SACRAMENTO, CA 95814	NONE PC	IN SUPPORT OF A LITERATURE REVIEW TO IDENTIFY QUESTIONS OF RELEVANCE TO KEY STAKEHOLDERS AND EXISTING RESEARCH AND DATASETS ON THE COSTS AND LOSSES OF WILDFIRES.	200,414.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	TO PROVIDE SUPPORT FOR THE THIRTY METER TELESCOPE.	5,000,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	TO SUPPORT DEVELOPMENT OF A NEW SIGNAL MULTIPLEXING TECHNOLOGY THAT WILL ALLOW REAL-TIME READOUT OF HIGH-FREQUENCY DETECTOR ARRAYS FOR POLARIZATION-SENSITIVE MEASUREMENTS OF THE COSMIC MICROWAVE BACKGROUND.	500,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	IN SUPPORT OF THE COLLABORATIVE PROJECT 'UNDERSTANDING BIOLOGICAL SYSTEMS USING RESONATOR-MEDIATED SINGLE-MOLECULE RAMAN DETECTION AND SPECTROSCOPY' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.

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CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	IN SUPPORT OF THE INVENTION OF A SAFE DELIVERY VECTOR THAT CAN CARRY LARGE GENOMES TO TARGET HUMAN CELLS.	225,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 E CALIFORNIA BOULEVARD MC 104-44 PASADENA, CA 91125	NONE PC	IN SUPPORT OF DEVELOPING ENGINEERED STRUCTURES TO CONTROL SOUND WAVES AND HEAT ON THE NANOSCALE.	600,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	200,000.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	IN SUPPORT OF THE COLLABORATIVE PROJECT 'BREAKING THE CENTRAL DOGMA: REVERSE TRANSLATION OF THE PROTEOME' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	IN SUPPORT OF THE DEVELOPMENT OF ENHANCED, MULTIDISCIPLINARY LABORATORY APPROACHES THAT CAN BE TRANSFERRED TO THE MARINE ENVIRONMENT, ENABLING THE QUANTIFICATION OF VARIATION IN METABOLIC ACTIVITIES AND ASSOCIATED CELL-SPECIFIC PROTEIN EXPRESSION.	163,300.



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CANADIAN PARKS AND WILDERNESS SOCIETY 506-250 CITY CENTRE AVENUE OTTAWA ON CANADA K1R 6K7	NONE PC	TO ADVANCE HABITAT PROTECTION.	250,000.
CAPE COD COMMERCIAL FISHERMENS ALLIANCE INC. 1566 MAIN STREET CHATHAM, MA 02633	NONE PC	TO SUPPORT EFFECTIVE IMPLEMENTATION AND DURABILITY OF SECTORS FOR GROUND FISH, WITH AN EMPHASIS ON ACCOUNTABILITY AND MONITORING; AND TO ENSURE SUSTAINABLE FISHING COMMUNITIES AND INDUSTRY LEADERSHIP INTO THE FUTURE, PARTICULARLY ON CAPE COD.	218,987.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL BE USED TO DEVELOP ALGORITHMS AND OPEN-SOURCE IMPLEMENTATIONS FOR ANALYSIS OF LARGE COLLECTIONS OF GENOMICS SEQUENCING DATA TO BETTER UNDERSTAND GENETIC VARIATION, GENE EXPRESSION, AND GENE FUNCTION.	350,000.
CDP NORTH AMERICA, INC. 127 WEST 26TH STREET, SUITE 300 NEW YORK, NY 10001	NONE PC	TO INTEGRATE WATER RISK INTO MAINSTREAM CORPORATE REPORTS.	750,000.
CENTER FOR STRATEGIC AND INTERNATIONAL STUDIES 1616 RHODE ISLAND AVENUE, NW WASHINGTON, DC 20036	NONE PC	TO SUPPORT A SERIES OF STUDIES AND WORKSHOPS ON INFRASTRUCTURE IN THE AMAZON.	258,000.

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CENTRE FOR OCEAN LIFE, DTU AQUA, TECHNICAL UNIV. JAEGERSBORG ALLE 1, 2920 CHARLOTTENLUND DENMARK	NONE PC	IN SUPPORT OF DEVELOPING COMPUTATIONAL MODELS OF MARINE PLANKTON ECOSYSTEMS FOR MULTIPLE TROPHIC LEVELS. MODEL PREDICTIONS WILL BE TESTED USING AN AUTONOMOUS FIELD INSTRUMENT IN THE CALIFORNIA CURRENT.	412,649.
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE 16 RUE PIERRE ET MARIE CURIE PARIS FRANCE 75005	NONE GOV	IN SUPPORT OF A CENTRALIZED PLATFORM FOR ANALYZING MOLECULAR DATASETS FOR A MODEL MARINE DIATOM.	219,950.
CENTRO DE APOIO SOCIO AMBIENTAL ALAMEDA BARAO DE LIMEIRA, 660 SAO PAULO SP BRAZIL	NONE PC	TO BUILD CAPACITY OF INDIGENOUS ORGANIZATIONS TO PROTECT THEIR TERRITORIES TO ADVANCE TERRITORIAL INTEGRITY, CONSOLIDATION AND NATURAL RESOURCE CONSERVATION.	1,284,427.
CERES INC. 99 CHAUNCY STREET, 6TH FLOOR BOSTON, MA 02111	NONE PC	TO IMPLEMENT THE FINANCE COLLABORATION FOR THE CONSERVATION AND FINANCIAL MARKETS INITIATIVE.	1,151,013.
CHINA DIALOGUE TRUST 306 GRAYSTON CENTRE 28 CHARLES SQ LONDON UNITED KINGDOM N1 6HT	NONE PC	TO INFORM CONSUMERS, PROCESSORS, PRODUCERS AND DECISION-MAKERS IN BOTH CHINA AND LATIN AMERICA ON THE GROWING DEMAND FOR SOY, BEEF, WILD CAPTURE FISHERIES AND AQUACULTURE AND ON RELATED ENVIRONMENTAL IMPACTS, INCLUDING EXPOSURE TO CLIMATE RISK AND IMPLICATIONS FOR THE SUSTAINABILITY OF FOOD SECURITY.	259,044.
CLIMATE POLICY INITIATIVE INC. 180 SANSOME STREET, SUITE 1000	NONE	TO SUPPORT TRANSPARENT INFRASTRUCTURE DECISION-MAKING IN THE BRAZILIAN AMAZON.	516,000.

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SAN FRANCISCO, CA 94104	PC		
CLIMATEWORKS FOUNDATION 235 MONTGOMERY STREET, SUITE 1300 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT EFFORTS TO PROTECT THE ENVIRONMENT BY INCREASING TRANSPARENCY AND CITIZEN AND COMMUNITY PARTICIPATION IN MAJOR INFRASTRUCTURE POLICIES, PLANS AND PROJECTS IN THE BRAZILIAN AMAZON.	1,000,000.
CLIMATEWORKS FOUNDATION 235 MONTGOMERY STREET, SUITE 1300 SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF THE CLIMATE AND LAND USE ALLIANCE'S IMPACT THROUGH ITS OPERATIONS, STRATEGIC DEVELOPMENT, AND MONITORING AND EVALUATIONS.	300,000.
COASTAL STATES STEWARDSHIP FOUNDATION 444 NORTH CAPITOL STREET, NW, SUITE 638 WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE NORTHEAST REGIONAL PLANNING BODY AND NORTHEAST REGIONAL OCEAN COUNCIL'S IMPLEMENTATION OF THE OCEAN PLAN THAT ADDRESSES ITS GOALS OF HEALTHY OCEANS AND COASTS, EFFECTIVE DECISION MAKING, AND COMPATIBILITY AMONG PAST, PRESENT AND FUTURE USES; TO ENSURE KEY ELEMENTS LIKE THE DATA PORTAL, ECOLOGICAL AND HUMAN USE DATA, PLAN MONITORING, AND STAKEHOLDER ENGAGEMENT ARE CONTINUED; AND TO EXPLORE AND SUPPORT A STRATEGY FOR ENSURING CAPACITY INTO THE FUTURE.	781,917.
COASTAL STATES STEWARDSHIP FOUNDATION 444 NORTH CAPITOL STREET, NW, SUITE 638 WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE MID-ATLANTIC REGIONAL COUNCIL ON THE OCEAN.	417,850.
COASTAL STATES STEWARDSHIP FOUNDATION 444 NORTH CAPITOL STREET, NW, SUITE 638 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF ADVANCING THE WEST COAST OCEAN ALLIANCE.	224,500.

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CODE FOR SCIENCE AND SOCIETY INC. 1221 SE 34TH AVENUE PORTLAND, OR 97214	NONE PC	IN SUPPORT OF A DATA SCIENCE CONFERENCE FUND TO ADMINISTER AWARDS FOR EVENTS IN THE DATA SCIENCE COMMUNITY.	445,000.
COLORADO STATE UNIVERSITY FOUNDATION 410 UNIVERSITY SERVICES CENTER FORT COLLINS, CO 80523	NONE PC	IN SUPPORT OF RESEARCH AIMING TO TACKLE SOME OF THE KEY PROBLEMS IN UNDERSTANDING EARTH-HUMAN INTERACTIONS THROUGH HIGHLY INTERDISCIPLINARY COLLABORATIVE APPROACHES. THE THREE OVERARCHING THEMES ARE: CHANGING OCEANS, SUSTAINABILITY OF NATURAL ASSETS, AND THE WATER-ENERGY-FOOD NEXUS.	684,267.
COMMUNITY INITIATIVES 1000 BROADWAY SUITE 480 OAKLAND, CA 94607	NONE PC	TO SUPPORT THE CARPENTRIES, AN ORGANIZATION THAT TEACHES FOUNDATIONAL CODING AND DATA SCIENCE SKILLS TO RESEARCHERS WORLDWIDE, IN DEVELOPING CAPACITY FOR DATA AND SOFTWARE SKILL TRAINING FOR COMPUTATIONAL AND DOMAIN SCIENTISTS.	600,000.
COMMUNITY INITIATIVES 1000 BROADWAY SUITE 480 OAKLAND, CA 94607	NONE PC	TO SUPPORT A COMMUNITY-DRIVEN EFFORT TO RESTORE AND CONSERVE THE HEALTH AND BIODIVERSITY OF THE HIGHLY PRODUCTIVE OCEAN WATERS SURROUNDING ST. GEORGE ISLAND IN THE BERING SEA AND TO FOSTER ACCESS TO MARINE RESOURCES IN THEM BY THE UNANGAN PEOPLE AND OTHER SUSTAINABLE ACTIVITIES.	156,715.
COMMUNITY INITIATIVES 1000 BROADWAY SUITE 480 OAKLAND, CA 94607	NONE PC	TO SUPPORT THE NORTHERN SIERRA PARTNERSHIP'S FRESHWATER CONSERVATION EFFORTS IN TWO HIGH-PRIORITY WATERSHEDS THROUGH WATER-RELATED CONSERVATION EASEMENTS, GROUNDWATER RECHARGE STRATEGY DEVELOPMENT AND ECOLOGICALLY BASED FOREST MANAGEMENT.	300,000.

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<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CONSERVATION INTERNATIONAL FOUNDATION 2011 CRYSTAL DRIVE, #600 ARLINGTON, VA 22202	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH, CONSERVATION, SUSTAINABILITY AND COLLABORATIVE ACTION FOR SHARED PROTECTION OF MARINE AND TERRESTRIAL SPECIES, KEY ECOSYSTEMS AND ECOLOGICAL CONNECTIVITY IN THE EASTERN TROPICAL PACIFIC.	500,000.
CONSERVATION INTERNATIONAL FOUNDATION 2011 CRYSTAL DRIVE, #600 ARLINGTON, VA 22202	NONE PC	TO STRENGTHEN ECUADOR'S PROTECTED AREA SYSTEM FOCUSING ON INCREASING THE CONSOLIDATION OF THE YASUNI-PASTAZA MOSAIC.	268,050.
CONSERVATION LAW FOUNDATION, INC. 62 SUMMER STREET BOSTON, MA 02110	NONE PC	TO SUPPORT IMPLEMENTATION OF THE NORTHEAST OCEAN PLAN SO IT PROMOTES RESILIENT AND PRODUCTIVE ECOSYSTEMS AND SUSTAINABLE USE, AND TO HELP SECURE EFFECTIVE GROUND FISH MANAGEMENT.	175,000.
CONSERVATION LAW FOUNDATION, INC. 62 SUMMER STREET BOSTON, MA 02110	NONE PC	TO SUPPORT HEALTHY OCEAN ECOSYSTEMS.	199,225.
CONSERVATION X LABS INC. 1342 FLORIDA AVENUE NW WASHINGTON, DC 20009	NONE PC	TO BUILD THE CONSERVATION FIELD'S CAPACITY TO HARNESS TECHNOLOGY SOLUTIONS.	999,913.
CONSERVATION X LABS INC. 1342 FLORIDA AVENUE NW WASHINGTON, DC 20009	NONE PC	TO IDENTIFY THE TOP SEVEN TO TEN QUESTIONS FOR WATER INNOVATION AT THE NEXUS OF ENVIRONMENTAL CONSERVATION AND SCIENCE, AND BASED ON THOSE QUESTIONS, KICK OFF A COMPETITIVE GRAND CHALLENGE TO IDENTIFY A SET OF PROMISING INNOVATIONS THAT ADDRESS ONE OR MORE OF THE PRIORITY QUESTIONS, TO SPUR INNOVATION ECOSYSTEMS TO ADDRESS THESE CONCERNS, AND TO HELP BRING THE BEST OF THESE IDEAS TO SCALE.	640,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CONSERVATION X LABS INC. 1342 FLORIDA AVENUE NW WASHINGTON, DC 20009	NONE PC	IN SUPPORT OF A PORTABLE, BATTERY-POWERED GENETIC SCREENING TOOL THAT WILL IDENTIFY SHORT SEGMENTS OF A DNA SEQUENCE FROM A SAMPLE OF PLANT OR ANIMAL TISSUE.	225,000.
CORNELL UNIVERSITY 214 BARD HALL, CORNELL UNIVERSITY ITHACA, NY 14853	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. DARRELL SCHLOM AIMING TO SYNTHESIZE ODD-PARITY TOPOLOGICAL SUPERCONDUCTORS AND HIGHER-TEMPERATURE MULTIFERROIC MATERIALS.	570,000.
DERECHO AMBIENTE Y RECURSOS NATURALES CALLE BERMUDEZ NO 788 IQUITOS MAYNAS PERU	NONE PC	TO DEVELOP INDIGENOUS CONSULTATION PROTOCOLS AND THE COLLECTION OF DEVELOPMENT DATA FOR PRIORITY INFRASTRUCTURE PROJECTS IN THE PERUVIAN AMAZON.	570,524.
DIGITAL PROMISE GLOBAL 1001 CONNECTICUT AVENUE, NW WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE DEVELOPMENT OF A NETWORK, RESOURCES AND RESEARCH THAT SUPPORTS MAKER-BASED SCIENCE AND ENGINEERING LEARNING IN AND OUT OF SCHOOLS.	600,000.
DUKE UNIVERSITY 2200 W MAIN STREET, SUITE 710 DURHAM, NC 27705	NONE PC	TO FACILITATE THE SHARING AND INTEGRATION OF WATER DATA FOR SUSTAINABILITY THROUGH AN INTERCONNECTED NETWORK OF WATER DATA HUBS.	805,439.
DUKE UNIVERSITY 305 TEER BUILDING BOX 90271 DURHAM, NC 27708	NONE PC	TO SUPPORT THE DEVELOPMENT OF AN EFFICIENT, LOW-COST PLATFORM TO PERFORM HYPERSPECTRAL IMAGING ON A CHIP.	225,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DUKE UNIVERSITY 2200 W MAIN STREET, SUITE 710 DURHAM, NC 27705-4677	NONE PC	TO SUPPORT THE DEVELOPMENT AND DISSEMINATION OF TWO WHITE PAPERS TO ENCOURAGE THE SAFE AND EFFECTIVE INTEGRATION OF AI-ENABLED DIAGNOSTIC DECISION SUPPORT TOOLS IN HEALTH CARE.	282,375.
EARTH INNOVATION INSTITUTE 98 BATTERY STREET, SUITE 250 SAN FRANCISCO, CA 94111	NONE PC	TO DEVELOP JURISDICTIONAL SUSTAINABILITY FRAMEWORKS IN THE CERRADO THAT FOSTER INTER-AGENCY COORDINATION IN STATE GOVERNMENTS AND ATTRACT INVESTMENTS IN SUPPORT OF DEFORESTATION-FREE COMMODITIES.	300,000.
ECOTRUST CANADA SUITE 200 1238 HOMER STREET VANCOUVER BC CANADA V6B 2Y5	NONE PC	TO SUPPORT SUSTAINABLE FISHERIES IN BRITISH COLUMBIA.	226,849.
EMERGENCY CARE RESEARCH INSTITUTE 5200 BUTLER PIKE PLYMOUTH MEETING, PA 19462	NONE PC	TO DEVELOP AND SUSTAIN A WEB-BASED REPOSITORY OF OBJECTIVE, EVIDENCE-BASED CLINICAL PRACTICE GUIDELINE CONTENT TO ADVANCE SAFE AND EFFECTIVE PATIENT CARE.	1,000,109.
EMERGENCY CARE RESEARCH INSTITUTE 5200 BUTLER PIKE PLYMOUTH MEETING, PA 19462	NONE PC	TO SUPPORT THE INCREASED VISIBILITY AND SUSTAINABILITY OF A MULTI-STAKEHOLDER, PRIVATE-SECTOR COLLABORATIVE ADDRESSING HEALTH INFORMATION TECHNOLOGY SAFETY.	1,013,339.
EMORY UNIVERSITY	NONE	IN SUPPORT OF THE COLLABORATIVE PROJECT 'WHAT DOES SELF LOOK LIKE' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON	56,250.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
1515 DICKEY DRIVE ATLANTA, GA 30322	PC	CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	
ENVIRONMENT FUNDERS CANADA 2 ST. CLAIR AVENUE EAST SUITE 300 TORONTO ON CANADA M4T 2T5	NONE PC	IN SUPPORT OF AN OCEANS COLLABORATIVE.	450,000.
ENVIRONMENTAL DEFENSE FUND INCORPORATED 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO SECURE AN ENVIRONMENTALLY AND ECONOMICALLY SUSTAINABLE AND DURABLE WEST COAST GROUND FISH TRAWL FISHERY THROUGH THE PACIFIC GROUND FISH INDIVIDUAL FISHING QUOTA (IFQ) PROGRAM.	250,000.
ENVIRONMENTAL DEFENSE FUND INCORPORATED 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO ADVANCE DURABILITY IN THE NEW ENGLAND GROUND FISH CATCH SHARE MANAGEMENT PROGRAM THROUGH IMPROVING ACCOUNTABILITY BY THE END OF 2019, AN ACHIEVEMENT THAT WILL SET THE STAGE FOR STRONG AND LONG-LASTING CONSERVATION GAINS.	200,000.
ENVIRONMENTAL DEFENSE FUND INCORPORATED 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	TO IMPROVE THE CONSOLIDATION STATUS OF SEVEN INDIGENOUS LANDS AND FOUR PROTECTED AREAS, WHILE BUILDING INTEGRATED GOVERNANCE MECHANISMS FOR THE XINGU MOSAIC (ABOUT 28 MILLION HECTARES).	140,000.
ENVIRONMENTAL LAW ALLIANCE WORLDWIDE 1412 PEARL STREET EUGENE, OR 97401	NONE PC	TO INCREASE ACCESS OF INDIGENOUS ORGANIZATIONS AND COMMUNITIES TO EFFECTIVE LEGAL ASSISTANCE FOR TERRITORIAL PROTECTION.	400,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ERASMUS UNIVERSITY MEDICAL CENTER WYTEMAWEG 8 ROTTERDAM NETHERLANDS 3015 CN	NONE GOV	IN SUPPORT OF THE DEVELOPMENT AND PUBLICATION OF A BROADLY-SUPPORTED RESEARCH AGENDA FOR IMPROVING DIAGNOSIS IN THE NEXT FIVE YEARS, DISSEMINATING THE TOP FIVE RESEARCH QUESTIONS PRIORITIZED BY A BROAD COMMUNITY OF RESEARCHERS.	48,348.
ETH ZURICH FOUNDATION WEINBERGSTRASSE 29 ZURICH SWITZERLAND 8006	NONE PC	IN SUPPORT OF LAYING THE GROUNDWORK FOR ESTABLISHING AN ECOLOGICAL FRAMEWORK FOR HOW MICROENVIRONMENTAL CONDITIONS AFFECT MICROBIAL FITNESS AND MARINE BIOGEOCHEMISTRY.	192,400.
FALLING WALLS FOUNDATION GGMBH KOCHSTRASSE 6-7 BERLIN GERMANY D-10969	NONE PC	IN SUPPORT OF FALLING WALLS ENGAGE EXPANSION EFFORTS TO IDENTIFY AND SELECT HIGH-QUALITY SCIENCE ENGAGEMENT EFFORTS, BUILD CAPACITY WITHIN TOP-TIER PROJECTS AND THE BROADER COMMUNITY, AND ESTABLISH A GLOBAL NETWORK OF SCIENCE ENGAGEMENT LEADERS.	350,000.
FEDERATION OF AMERICAN SCIENTISTS 1112 16TH STREET, NW WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF ENGAGING SCIENTISTS, ENGINEERS, AND TECHNOLOGISTS WITH U.S. FEDERAL POLICY MAKERS TO INCREASE THE USE OF SCIENTIFICALLY SOUND EVIDENCE FOR PUBLIC ISSUES AND DECISION MAKING.	350,000.
FIELD MUSEUM OF NATURAL HISTORY 1400 S LAKE SHORE DRIVE CHICAGO, IL 60605-2496	NONE PC	TO SUPPORT SOUND LAND USE DECISION-MAKING CONSISTENT WITH THE CONSOLIDATION OF PROTECTED AREAS AND INDIGENOUS LANDS IN THE AMAZON REGIONS OF SOUTHERN COLOMBIA AND NORTHERN PERU.	100,000.
FIELD MUSEUM OF NATURAL HISTORY 1400 S LAKE SHORE DRIVE CHICAGO, IL 60605-2496	NONE PC	TO EXPAND THE LORETO REGIONAL CONSERVATION SYSTEM (RCS) IN PERU TO 6.9 MILLION HECTARES BY APPLYING IMPROVED AND INCLUSIVE MANAGEMENT EFFECTIVENESS TOOLS.	500,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FRIENDS OF THE EARTH 1101 15TH STREET, NW 11TH FLOOR WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF THE DEVELOPMENT OF DOMESTIC AND INTERNATIONAL POLICIES THAT PROTECT U.S. ARCTIC ECOSYSTEMS AND COMMUNITIES FROM THE CATASTROPHIC AND CHRONIC IMPACTS OF INTENSIFIED VESSEL TRAFFIC.	150,000.
FRIENDS OF THE OSA 1822 R STREET NW, 4TH FLOOR WASHINGTON, DC 20009	NONE PC	TO SUPPORT AND TEST THE USE OF CITIZEN SCIENCE AND LOW-COST SCIENCE TOOLS TO ACHIEVE MEASURABLE SCIENCE AND CONSERVATION IMPACT.	424,925.
FUNDACAO DE EMPREENDIMENTOS CIENTIFICOS E TECNOLOG AVENDIA L3 NORTE - EDIFICIO FINATEC BRASILIA DISTRITO FEDERAL BRAZIL 70910-900	NONE PC	TO SUPPORT THE DEVELOPMENT OF ETHNOTERRITORIAL STUDIES OF INDIGENOUS LANDS IN BRAZIL.	500,000.
FUNDACAO GETULIO VARGAS RUA ROCHA, 233 - BELA VISTA SAO PAULO BRAZIL 01330-000	NONE PC	TO SUPPORT THE DEVELOPMENT AND ADOPTION OF A TERRITORIAL GOVERNANCE PLAN AND GOVERNANCE MECHANISM ALONG THE BR-319 CORRIDOR IN AMAZONAS STATE, BRAZIL AND AN ASSOCIATED NATIONAL POLICY FRAMEWORK FOR AMAZON-WIDE REPLICATION WITH THE GOAL OF REDUCING LONG-TERM NEGATIVE SOCIAL AND ENVIRONMENTAL IMPACTS ASSOCIATED WITH DEVELOPMENT.	1,677,186.
FUNDACION AMIGOS DE LA NATURALEZA KM 7 CARRETERA ANTIGUA A COCHABAMBA SANTA CRUZ BOLIVIA	NONE PC	IN SUPPORT OF IMPROVING SCIENCE-BASED INFORMATION SYNTHESIS AND ANALYSIS CAPACITY TO ESTIMATE FIRE RISK, AND TO MONITOR AND VERIFY FIRE OCCURRENCE ON THE AGRICULTURAL FRONTIER IN BOLIVIA.	250,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FUNDACION PARA EL DESARROLLO DEL SISTEMA NACIONAL PROLONGACION CORDERO NO 127 LA PAZ BOLIVIA	NONE PC	TO IDENTIFY NEW FUNDING SOURCES AND ECOSYSTEM FUNCTION MECHANISMS FOR BOLIVIA'S PROTECTED AREAS.	400,000.
FUNDACION PARA LA CONSERVACION Y EL DESARROLLO SOS CARRERA 70 C NO 50-47 BOGOTA COLOMBIA	NONE PC	TO SUPPORT THE IMPLEMENTATION OF INNOVATIVE INFRASTRUCTURE GUIDELINES IN THE COLOMBIAN AMAZON.	500,000.
GENOME RESEARCH LIMITED WELLCOME GENOME CAMPUS, HINXTON CAMBRIDGE UNITED KINGDOM CB10 1SA	NONE PC	TO SUPPORT GENOME SEQUENCING OF AQUATIC ORGANISMS THAT LIVE IN SYMBIOTIC ASSOCIATION AND TO ENABLE COLLABORATIVE COMMUNITIES OF RESEARCHERS TO ANALYZE THE DATA.	3,795,975.
GEOMAR HELMHOLTZ CENTRE FOR OCEAN RESEARCH KIEL WISCHHOFSTRASSE 1-3 KIEL GERMANY 24148	NONE PC	IN SUPPORT OF LABORATORY AND FIELD-BASED RESEARCH TO FURTHER THE UNDERSTANDING OF PHYTOPLANKTON GENOMICS, PHYSIOLOGY AND POPULATION DYNAMICS, INTERACTIONS WITH OTHER MARINE MICROBES, AND HOW PHYTOPLANKTON UPTAKE OF CO2 WILL TRANSITION UNDER NATURAL AND HUMAN-INDUCED PERTURBATIONS.	827,856.
GEORGE WASHINGTON UNIVERSITY 2121 I STREET , NW, SUITE 601 WASHINGTON, DC 20052	NONE PC	TO SUPPORT AN 18-MONTH PILOT PROGRAM TO IMPLEMENT PALLIATIVE CARE BEST PRACTICES AT 15 DIALYSIS CLINICS THAT CARE FOR 2,000 PATIENTS WITH CHRONIC KIDNEY DISEASE.	1,146,286.
GETTYSBURG COLLEGE CAMPUS BOX 437, 300 NORTH WASHINGTON STREET GETTYSBURG, PA 17325	NONE PC	IN SUPPORT OF DEVELOPMENT AND APPLICATION OF ADVANCED VISUALIZATION TOOLS TO STUDY THE INTERACTIONS BETWEEN A SALAMANDER AND THE ALGAE THAT LIVE INSIDE OF ITS CELLS.	337,930.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GLOBAL FISHING WATCH INC. 1025 CONNECTICUT AVENUE, NW SUITE 200 WASHINGTON, DC 20036	NONE PC	TO CONSTRUCT A WEB-ACCESSIBLE GLOBAL CARRIER VESSEL DATABASE AND MONITORING PORTAL THAT PROVIDES GREATER TRANSPARENCY OF GLOBAL TRANSSHIPPING ACTIVITIES WITHIN THE JURISDICTIONS OF FIVE GLOBAL TUNA REGIONAL FISHERY MANAGEMENT ORGANIZATIONS, AND TO SECURE ENHANCED CONSERVATION AND MANAGEMENT MEASURE PROPOSALS IN AT LEAST THREE OF THOSE ORGANIZATIONS.	200,000.
GLOBAL GREENGRANTS FUND INC. 2840 WILDERNESS PLACE, SUITE A BOULDER, CO 80301	NONE PC	TO SUPPORT LOCAL COMMUNITIES AND INDIGENOUS ORGANIZATIONS TO INCREASE THEIR CAPACITY TO PROTECT THEIR ENVIRONMENT BY EXERCISING THEIR RIGHTS TO CONSULTATION AND TERRITORIAL GOVERNANCE.	220,200.
GREAT BEAR INITIATIVE SOCIETY 409 GRANVILLE STREET, SUITE 1660 VANCOUVER BC CANADA V6C 1T2	NONE NC	TO ENABLE SUSTAINABLE SHIPPING.	602,585.
GREAT BEAR INITIATIVE SOCIETY 409 GRANVILLE STREET, SUITE 1660 VANCOUVER BC CANADA V6C 1T2	NONE NC	TO SUPPORT BRITISH COLUMBIA HABITAT PROTECTION.	1,054,314.
GREATER WASHINGTON EDUCATIONAL TELECOMMUNICATIONS 3939 CAMPBELL AVENUE ARLINGTON, VA 22206	NONE PC	IN SUPPORT OF PBS NEWSHOUR FOR SCIENCE-BASED PROGRAMMING THAT USES TRADITIONAL BROADCAST, DIGITAL MEDIA AND SOCIAL MEDIA TO INFORM AND EDUCATE THE PUBLIC ABOUT THE CREATIVE AND INNOVATIVE CONTRIBUTIONS OF SCIENTISTS AND ENGINEERS.	500,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GREEN FIRE PRODUCTIONS PO BOX 369 LA GRANDE, OR 97850	NONE PC	IN SUPPORT OF EDUCATIONAL OCEAN FILMS.	156,000.
GULF OF MAINE RESEARCH INSTITUTE 350 COMMERCIAL STREET PORTLAND, ME 04101	NONE PC	IN SUPPORT OF THE CREATION, FIELD TESTING AND DISSEMINATION OF PLATFORM-AGNOSTIC RESOURCES TO SUPPORT YOUTH AND COMMUNITY ENGAGEMENT IN SCIENTIFIC EXPLORATION AND INVESTIGATION.	83,449.
GULF OF MAINE RESEARCH INSTITUTE 350 COMMERCIAL STREET PORTLAND, ME 04101	NONE PC	IN SUPPORT OF THE CREATION, FIELD TESTING AND DISSEMINATION OF PLATFORM-AGNOSTIC RESOURCES TO SUPPORT YOUTH AND COMMUNITY ENGAGEMENT IN SCIENTIFIC EXPLORATION AND INVESTIGATION.	188,000.
GULF OF MAINE RESEARCH INSTITUTE 350 COMMERCIAL STREET PORTLAND, ME 04101	NONE PC	TO SUPPORT THE MARINE RESOURCES EDUCATION PROGRAM, BUILDING INDUSTRY LEADERSHIP CAPACITY IN WEST COAST FISHERIES; AND TO PROVIDE TECHNICAL SUPPORT AND ELECTRONIC MONITORING CAPACITY IN NEW ENGLAND GROUND FISH FISHERIES.	145,000.
HEALTH SERVICES ADVISORY GROUP, INC. 3133 E CAMELBACK ROAD, SUITE 100 PHOENIX, AZ 85016	NONE NC	TO DEVELOP A CLAIMS-BASED RISK PREDICTION MODEL FOR ANTICOAGULANT-RELATED BLEEDING THAT CAN POSITIVELY AFFECT THE HEALTH AND LIVES OF INDIVIDUALS TAKING ANTICOAGULANT MEDICATIONS.	645,500.
HOPEWELL FUND 1202 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE ESTABLISHMENT OF THE ACADEMIC DATA SCIENCE ALLIANCE, A COMMUNITY OF ACADEMIC DATA SCIENCE PRACTITIONERS, EDUCATORS, AND LEADERS WHO SHARE KNOWLEDGE, IDEAS, AND LESSONS LEARNED, FACILITATING THE INTEGRATION OF NEW DATA SCIENCE APPROACHES INTO UNIVERSITY RESEARCH AND TRAINING ACROSS THE COUNTRY.	1,000,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HOWARD HUGHES MEDICAL INSTITUTE 19700 HELIX DRIVE ASHBURN, VA 20147	NONE PC	IN SUPPORT OF AN EXPANDED FIVE YEAR PROJECT THAT WILL INCREASE THE NUMBER AND DIVERSITY OF BIOLOGISTS WHO HAVE ACCESS TO THE UNIQUE STATE-OF-THE-ART OPTICAL IMAGING MICROSCOPES THAT HAVE BEEN DEVELOPED AT JANELIA FARM YEARS BEFORE THEY ARE COMMERCIALY AVAILABLE.	1,138,000.
HUMBOLDT-VIADRINA GOVERNANCE PLATFORM GGMBH PARISER PLATZ 6 BERLIN GERMANY 10117	NONE PC	TO INCREASE TRANSPARENCY IN FISHERIES MANAGEMENT AND SEAFOOD SUPPLY CHAINS BY INCREASING THE NUMBER OF NATIONAL GOVERNMENTS WHO ARE FORMAL MEMBERS OF AND/OR HAVE PUBLICLY COMMITTED TO THE FISHERIES TRANSPARENCY INITIATIVE.	500,000.
ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI ONE GUSTAVE L. LEVY PLACE, BOX 1070 NEW YORK, NY 10029-6574	NONE PC	TO SUPPORT AN EDUCATION COLLABORATIVE COMPRISED OF FIVE LEADING PALLIATIVE CARE ORGANIZATIONS THAT WILL WORK TOGETHER TO COACH SERIOUS ILLNESS PROGRAMS ON HOW TO SUCCEED UNDER VALUE-BASED PAYMENT ARRANGEMENTS.	719,366.
ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI ONE GUSTAVE L. LEVY PLACE, BOX 1070 NEW YORK, NY 10029-6574	NONE PC	TO SUPPORT A NATIONAL EFFORT TO PRIORITIZE, COORDINATE AND MONITOR OPPORTUNITIES AND ACTIVITIES THAT LEAD TO A ROBUST ACCOUNTABILITY SYSTEM FOR COMMUNITY-BASED SERIOUS ILLNESS CARE.	840,000.
INDIAN LAW RESOURCE CENTER 601 E STREET SE WASHINGTON, DC 20003	NONE PC	TO IMPROVE CONDITIONS FOR CONSOLIDATION OF INDIGENOUS LANDS THROUGH BUILDING THE CAPACITY OF INDIGENOUS ORGANIZATIONS TO ADVANCE TERRITORIAL INTEGRITY.	275,000.
INSTITUT DE CIENCIES FOTONIQUES	NONE	TO SUPPORT EXPERIMENTAL DEMONSTRATION OF HYBRID ENTANGLEMENT BETWEEN MANY-PARTICLE QUANTUM SYSTEMS BASED ON DIFFERENT PHYSICAL PLATFORMS AND SUBSEQUENT TELEPORTATION OF QUANTUM INFORMATION	350,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AVENIDA CARL FRIEDRICH GAUSS, 3 CASTELLDEFELS (BARCELONA) SPAIN 8860	PC	BETWEEN THESE SYSTEMS, KEY STEPS TOWARD EFFICIENT AND RELIABLE DISTRIBUTION OF QUANTUM INFORMATION OVER QUANTUM NETWORKS.	
INSTITUTES FOR JOURNALISM AND NATURAL RESOURCES PO BOX 1996 MISSOULA, MT 59806	NONE PC	IN SUPPORT OF OCEAN CONSERVATION STORYTELLING.	76,719.
INSTITUTO CENTRO DE VIDA RUA AMERICO SALGADO, 1890 CUIABA MT BRAZIL 78045-055	NONE PC	TO SUPPORT THE PROTECTION OF FRESHWATER ECOSYSTEMS IN PRIORITY AREAS OF THE ANDES-AMAZON REGION IN BRAZIL, PERU AND COLOMBIA.	195,256.
INSTITUTO CENTRO DE VIDA RUA AMERICO SALGADO, 1890 CUIABA MT BRAZIL 78045-055	NONE PC	IN SUPPORT OF IMPLEMENTING THE ENVIRONMENTAL RURAL CADASTER IN BRAZIL.	342,000.
INSTITUTO CONEXOES SUSTENTAVEIS RUA ANGELO CUSTODIO, 728 BELEM PARA BRAZIL 66020-710	NONE NC	TO SUPPORT A TECHNICAL COLLABORATION BETWEEN INSTITUTO CONEXOES SUSTENTAVEIS (CONEXSUS) AND THE FEDERAL AGENCY FOR PROTECTED AREAS (ICMBIO) TO CREATE TOOLS AND PROCESSES TO IMPLEMENT A MECHANISM FOR DEPLOYING ENVIRONMENTAL COMPENSATION FUNDS TO BENEFIT AMAZONIAN FEDERAL PROTECTED AREAS.	120,096.
INSTITUTO DE DESENVOLVIMENTO SUSTENTAVEL MAMIRAUÁ ESTRADA DO BEXIGA, 2.584 BAIRRO TEFE AM BRAZIL	NONE PC	TO SUPPORT THE DEVELOPMENT AND OPTIMIZATION OF TECHNOLOGY AND A BIODIVERSITY INDEX TO MONITOR PROTECTED AREAS AND INDIGENOUS LANDS ACROSS THE AMAZON.	268,374.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INSTITUTO DE PESQUISA AMBIENTAL DA AMAZONIA AVENIDA NAZARE 669 BELEM PA BRAZIL 66035-170	NONE PC	TO PROVIDE TECHNICAL SUPPORT FOR IMPLEMENTATION OF REGIONAL POLICIES AND COMMITMENTS FOR DEFORESTATION REDUCTION.	400,000.
INSTITUTO DE PESQUISA AMBIENTAL DA AMAZONIA AVENIDA NAZARE 669 BELEM PA BRAZIL 66035-170	NONE PC	IN SUPPORT OF SCIENCE-BASED INFORMATION AND ANALYSIS, TO CLARIFY THE EXTENT, CAUSES AND IMPACTS OF FIRES IN BRAZIL.	250,000.
INSTITUTO DE PESQUISAS ECOLOGICAS ROD. DOM PEDRO I, KM 47 NAZARE PAULISTA SP BRAZIL 47 - 12960-000	NONE PC	TO INCREASE AND ACCELERATE THE CONSOLIDATION STATUS OF 84 PROTECTED AREAS AND INDIGENOUS LANDS, ACCOUNTING FOR 80 MILLION HECTARES IN THE BRAZILIAN AMAZON, AND ESTABLISH THEIR RESILIENCE AGAINST DEFORESTATION AND OTHER THREATS.	1,069,000.
INSTITUTO DO HOMEM E MEIO AMBIENTE DA AMAZONIA RUA DOMINGOS MARREIROS, 2020 BELEM PA BRAZIL 66060-160	NONE PC	IN SUPPORT OF THE DEVELOPING AND TESTING THE NEXT GENERATION OF LAND USE AND LAND COVER CHANGE MONITORING TECHNOLOGIES USING HIGH RESOLUTION IMAGERY AND ADVANCED MACHINE LEARNING METHODS.	73,982.
INSTITUTO INTERNACIONAL DE EDUCACAO DO BRASIL SHIS QI 05, BLOCO F, SALA 101 CENTR BRASILIA DF BRAZIL 71606-900	NONE PC	TO ENHANCE PARTICIPATORY PROCESSES FOR REGIONAL DEVELOPMENT PLANNING IN BRAZIL.	1,295,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INSTITUTO SOCIOAMBIENTAL AVENIDA HIGIENOPOLIS, 901 SAO PAULO SP BRAZIL 01238-001	NONE PC	TO DEVELOP INDIGENOUS CONSULTATION PROTOCOLS FOR THE PROPOSED GRAIN RAILWAY IN BRAZIL.	825,652.
INSTITUTO SOCIOAMBIENTAL AVENIDA HIGIENOPOLIS, 901 SAO PAULO SP BRAZIL 01238-001	NONE PC	TO INFORM DECISION-MAKING THROUGH THE PREPARATION AND DISSEMINATION OF INTERDISCIPLINARY GEOREFERENCED ANALYSES ON SOCIO-ENVIRONMENTAL DYNAMICS IN THE PAN-AMAZONIAN REGION, INCLUDING LAND USE/LAND COVER AND CHANGE DATA FOR THE PERIOD OF 1985-2018 AND COMPREHENSIVE ANALYSES OF PRESSURES AND THREATS.	618,046.
INTERNATIONAL RIVERS NETWORK 2054 UNIVERSITY AVENUE, SUITE 300 BERKELEY, CA 94703	NONE PC	TO SUPPORT THE PROTECTION OF FRESHWATER ECOSYSTEMS IN PRIORITY AREAS OF THE ANDES-AMAZON REGION IN BRAZIL, PERU AND COLOMBIA.	250,300.
INTERNATIONAL SENIOR LAWYERS PROJECT 110 W 40TH STREET, SUITE 700 NEW YORK, NY 10018	NONE PC	TO SUPPORT A TRAINING PROGRAM TO ADVANCE CIVIL SOCIETY'S UNDERSTANDING OF INFRASTRUCTURE ISSUES.	150,000.
INTERNATIONAL UNION FOR CONSERVATION OF NATURE 28 RUE MAUVERNEY GLAND VAUD SWITZERLAND 1196	NONE GOV	TO SUPPORT THE APPLICATION OF THE IUCN GREEN LIST STANDARD IN AMAZON PROTECTED AREAS AND COMMUNITY CONSERVED AREAS.	950,000.
INUIT CIRCUMPOLAR COUNCIL-ALASKA 3900 ARCTIC BOULEVARD, SUITE 203 ANCHORAGE, AK 99503	NONE PC	TO STRENGTHEN INUIT CIRCUMPOLAR COUNCIL'S ADVOCACY EFFORTS FOR THE PROTECTION AND RESILIENCE OF THE ARCTIC, WITH A FOCUS ON MARINE AND COASTAL SYSTEMS.	115,125.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
IOWA STATE UNIVERSITY 12 PHYSICS HALL, IOWA STATE UNIVERSITY AMES, IA 50011	NONE GOV	IN SUPPORT OF RESEARCH TARGETING DISCOVERY OF NEW MATERIALS EXHIBITING UNCONVENTIONAL SUPERCONDUCTIVITY AND QUANTUM CRITICAL BEHAVIOR.	170,000.
J. CRAIG VENTER INSTITUTE INC. 5 RESEARCH PLACE ROCKVILLE, MD 20850	NONE PC	IN SUPPORT OF DEVELOPING NEW METHODS TO OBSERVE VIRUSES AND THEIR HOSTS AND BROADENING UNDERSTANDING OF DIFFERENT MODES OF VIRAL INFECTION IN THE OCEAN.	445,379.
J. CRAIG VENTER INSTITUTE INC. 5 RESEARCH PLACE ROCKVILLE, MD 20850	NONE PC	IN SUPPORT OF DEVELOPING GENETIC TOOLS FOR DIATOMS AND OTHER MARINE PROTISTS TO BENEFIT THE MARINE MICROBIAL ECOLOGY RESEARCH COMMUNITY.	384,379.
JOHNS HOPKINS UNIVERSITY 3701 SAN MARTIN DRIVE BALTIMORE, MD 21218	NONE PC	IN SUPPORT OF LEADING-EDGE RESEARCH TO DEVELOP TIME-RESOLVED NEUTRON SCATTERING AS A PROBE OF QUANTUM MATERIALS FAR FROM EQUILIBRIUM.	487,881.
JOHNS HOPKINS UNIVERSITY 525 N WOLFE STREET BALTIMORE, MD 21205	NONE PC	TO INVESTIGATE THE POTENTIAL USE OF PATIENT-REPORTED MEASURES IN DESIGNING MEASURES TO IMPROVE DIAGNOSTIC EXCELLENCE.	298,000.
JOHNS HOPKINS UNIVERSITY ACCM, 600 N WOLFE STREET, BLALOCK 1501 BALTIMORE, MD 21287	NONE PC	TO SUPPORT DEVELOPMENT OF HEALTH CARE PERFORMANCE MEASURES TO TRACK THE RATES OF STROKE, HEART ATTACK, AND SEPSIS MISDIAGNOSIS.	1,145,063.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
JOHNS HOPKINS UNIVERSITY 525 N WOLFE STREET BALTIMORE, MD 21287	NONE PC	TO IDENTIFY PRIMARY CARE PROVIDERS ABOVE THE MEAN IN THEIR POLYPHARMACY RATE AND ENGAGE THEM USING THE IMPROVING WISELY PHYSICIAN ENGAGEMENT MODEL TO CHANGE THEIR PRESCRIBING PRACTICES AND IMPROVE PATIENT CARE.	387,041.
JOHNS HOPKINS UNIVERSITY 3400 N CHARLES STREET BALTIMORE, MD 21218	NONE PC	IN SUPPORT OF THE COLLABORATIVE PROJECT 'BREAKING THE CENTRAL DOGMA: REVERSE TRANSLATION OF THE PROTEOME' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
JOHNS HOPKINS UNIVERSITY 3400 N CHARLES STREET BALTIMORE, MD 21218	NONE PC	IN SUPPORT OF THE SCISERVER PROJECT, A SUITE OF TOOLS FOR MANAGING AND ANALYZING LARGE VOLUMES OF SCIENTIFIC DATA BRINGING PRODUCTION QUALITY RESEARCH SOFTWARE TO A VARIETY OF NATURAL SCIENCE QUESTIONS, INCLUDING THE FIFTH GENERATION OF THE SLOAN DIGITAL SKY SURVEY.	57,500.
JULIA COMPUTING, INC. 20 GARLAND ROAD NEWTON, MA 02459	NONE NC	IN SUPPORT OF ENHANCING THE JULIA SOFTWARE ECOSYSTEM AND ITS CORE UNDERLYING OPEN-SOURCE TECHNOLOGIES TO ACCELERATE SCIENTIFIC DISCOVERY THROUGH COMPUTATION.	549,438.
JUPITER INTELLIGENCE, INC. 181 2ND AVENUE, SUITE 300	NONE	TO SUPPORT THE DEVELOPMENT OF AN OPERATIONAL WILDFIRE DECISION SUPPORT SYSTEM WITH REAL-TIME FIRE RISK INTELLIGENCE FOR IMPROVED EARLY DETECTION AND ASSESSMENT OF WILDFIRES.	1,002,403.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SAN MATEO, CA 94401	NC		
KAISER FOUNDATION HOSPITALS 1800 HARRISON STREET, 17TH FLOOR OAKLAND, CA 94612	NONE PC	IN SUPPORT OF THE SEPSIS ON FHIR PROJECT WHICH WILL DEVELOP DATA STANDARDS AND A SOFTWARE QUERY TOOL THAT SUPPORTS THE INTEROPERABILITY OF SEPSIS DATA ACROSS HEALTH SYSTEMS.	650,000.
KAISER FOUNDATION HOSPITALS 1800 HARRISON STREET, 17TH FLOOR OAKLAND, CA 94612	NONE PC	TO DEVELOP AND DISSEMINATE METHODS TO CHARACTERIZE AND PREDICT HARMFUL EVENTS THAT OCCUR OUTSIDE THE HOSPITAL DUE TO COMMONLY USED DRUGS.	477,459.
KAWERAK INC. 500 & 504 SEPPALA DRIVE NOME, AK 99762	NONE PC	TO PROTECT THE BERING STRAIT REGION'S COASTAL AND MARINE ECOSYSTEMS AND COMMUNITIES FROM THE INCREASING IMPACTS OF CLIMATE CHANGE AND INDUSTRIAL ACTIVITIES.	419,352.
LANDPATHS 618 4TH STREET SANTA ROSA, CA 95404	NONE PC	FOR THE ACQUISITION AND PERMANENT PROTECTION OF THE MYERS PROPERTY IN WESTERN SONOMA COUNTY.	511,569.
LAS CUMBRES OBSERVATORY GLOBAL TELESCOPE 6740 CORTONA DRIVE, SUITE 102 GOLETA, CA 93117	NONE POF	TO SUPPORT CONSTRUCTION OF TWO 1.0M TELESCOPES AT TENERIFE IN THE CANARY ISLANDS TO ADD TO THE EXISTING LAS CUMBRES OBSERVATORY NETWORK TO PROVIDE COMPLETE COVERAGE OF THE NORTHERN SKY.	2,384,049.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
LOWN INSTITUTE INC. 21 LONGWOOD AVENUE BROOKLINE, MA 02446	NONE PC	TO SUPPORT THE FRAMING OF AN ACTION PLAN TO REDUCE POLYPHARMACY IN FRAIL ELDERLY PATIENTS.	21,886.
LUMINARY LABS, LLC 61 BROADWAY SUITE 2800 NEW YORK, NY 10006	NONE NC	TO IDENTIFY AND ACCELERATE HIGH QUALITY, DURABLE LOW-COST TOOLS FOR EDUCATION, SCIENCE AND ENVIRONMENTAL CONSERVATION.	500,000.
MAINE COAST FISHERMEN 'S ASSOCIATION PO BOX 112 TOPSHAM, ME 04086	NONE PC	TO SUPPORT ORGANIZATIONAL CAPACITY AND LEADERSHIP, AS WELL AS WORK TO ENSURE EFFECTIVE AND DURABLE MANAGEMENT FOR GROUND FISH IN NEW ENGLAND AND MAINE FISHING COMMUNITIES.	175,000.
MANTA CONSULTING, INC 316 MID VALLEY CENTER, SUITE 190 CARMEL, CA 93923	NONE NC	TO SUPPORT FISH 2.0'S 2018-19 COMPETITIVE MARKET PLATFORM FOR ENTREPRENEURS, INNOVATORS AND INVESTORS LOOKING TO COMMERCIALIZE IDEAS, PRODUCTS AND SERVICES THAT REDUCE THE ENVIRONMENTAL FOOTPRINT ASSOCIATED WITH POOR AQUACULTURE PRACTICES AND UNSUSTAINABLE FISHING.	100,000.
MARINE AFFAIRS RESEARCH AND EDUCATION 20227 NE 163RD STREET WOODINVILLE, WA 98077	NONE PC	TO SUSTAIN AND EXPAND A COMMUNITY OF PRACTICE FOR OCEAN CONSERVATION AND MANAGEMENT PROFESSIONALS.	50,000.
MARINE AFFAIRS RESEARCH AND EDUCATION 20227 NE 163RD STREET WOODINVILLE, WA 98077	NONE PC	TO SUPPORT ACCESS TO CONSERVATION EVIDENCE FOR EFFECTIVE OCEAN HABITAT PROTECTION IN NORTH AMERICA.	155,911.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MARINE FISH CONSERVATION NETWORK C/O 1829 WILSON BOULEVARD, #230A ARLINGTON, VA 22201	NONE PC	TO PROVIDE SUPPORT FOR COMMUNICATING THE VALUE OF SCIENCE-BASED FISHERIES MANAGEMENT.	290,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE, NE18-901 CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF A NEXT-GENERATION, OPEN-SOURCE MODEL OF MICROBIAL COMMUNITIES THAT ADDRESSES MOLECULAR AND ELEMENTAL COMPOSITION, BIOGEOCHEMICAL FUNCTION, AND INTERACTIONS AMONG ORGANISMS IN THE WATER COLUMN.	132,300.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF LEADING-EDGE RESEARCH TO CONTROL THE PROPERTIES OF QUANTUM MATERIALS USING LIGHT AND TO PROBE THE TIME-DEPENDENT MATERIAL STATES USING PHOTOEMISSION SPECTROSCOPY AND ELECTRON DIFFRACTION.	267,978.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	250,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF LEADING-EDGE RESEARCH TO DEVELOP NOVEL FABRICATION AND CHARACTERIZATION METHODS FOR PROBING HETEROSTRUCTURES IN WHICH TOPOLOGY, GEOMETRY, AND/OR STRONG ELECTRONIC CORRELATION ARE EXPECTED TO PRODUCE EXOTIC QUANTUM PHENOMENA.	199,026.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF POSTDOCTORAL FELLOWS FOR THE PHYSICS OF LIVING SYSTEMS GROUP TO STUDY NON-EQUILIBRIUM DYNAMICS OF BIOLOGICAL SYSTEMS.	500,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE 37-241 CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF THE CONSTRUCTION OF THE HYDROGEN EPOCH OF REIONIZATION ARRAY RADIO OBSERVATORY, TO ENABLE STUDIES OF THE EARLY UNIVERSE BY OBSERVATIONS OF HIGHLY REDSHIFTED 21-CENTIMETER EMISSION FROM HYDROGEN ATOMS.	833,256.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. JOSEPH CHECKELSKY ON REALIZING TOY MODELS OF EXOTIC ELECTRONIC STRUCTURE IN REAL MATERIALS, NAMELY ISOLATED KAGOME LAYERS AND LIEB AND DICE LATTICES.	729,798.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02139	NONE PC	TO SUPPORT THE DEVELOPMENT OF A QUANTUM GAS MICROSCOPE FOR MOLECULES, WHICH WILL ENABLE SINGLE-SITE MANIPULATION AND IMAGING OF ULTRACOLD DIATOMIC MOLECULES TRAPPED IN AN OPTICAL LATTICE FORMED BY LASER BEAMS.	323,500.
MAX PLANCK SOCIETY FOR THE ADVANCEMENT OF SCIENCE CELSIUSSTRASSE 1 BREMEN GERMANY D-28359	NONE PC	IN SUPPORT OF OBTAINING A DEEPER UNDERSTANDING OF THE FUNCTION AND METABOLISM OF THE WIDE ARRAY OF MICROBES THAT DRIVE CHEMOSYNTHETIC PRIMARY PRODUCTION IN MARINE ENVIRONMENTS THROUGH THEIR SYMBIOSES WITH MARINE INVERTEBRATES.	216,100.
MAYO CLINIC 200 FIRST STREET SW ROCHESTER, MN 55905-0001	NONE PC	TO SUPPORT THE WORK OF PATIENT AND FAMILY ENGAGEMENT EARLY-CAREER INVESTIGATOR, JUAN P. BRITO CAMPANA, IN HIS PROJECT TO ESTIMATE THE IMPACT OF SHARING COST INFORMATION WITH DECISION AIDS USED IN CLINICAL ENCOUNTERS IN HEALTH CARE.	168,750.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MONMOUTH UNIVERSITY INC. 400 CEDAR AVENUE WEST LONG BRANCH, NJ 07764-1898	NONE PC	TO SUPPORT THE MAPPING AND ASSESSMENT OF MARINE RESOURCES IN THE MID-ATLANTIC REGION AND TO FOSTER PUBLIC UNDERSTANDING OF OCEAN PLANNING.	274,881.
MONTANA STATE UNIVERSITY 301 MONTANA HALL BOZEMAN, MT 59717-2470	NONE GOV	IN SUPPORT OF USING ADVANCED CHEMISTRY AND MICROSCOPY TECHNIQUES TO MAP AT HIGH RESOLUTION THE SPATIAL ORGANIZATION OF MICROBIAL METABOLIC ACTIVITY IN MARINE SEDIMENT HABITATS TO UNDERSTAND HOW MICROBIAL COMMUNITIES RESPOND TO FRESHLY DELIVERED NUTRIENTS.	89,254.
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039-9644	NONE POF	IN SUPPORT OF DEVELOPING AN UNDERWATER OPTICAL IMAGING SYSTEM CAPABLE OF VISUALIZING AND MEASURING FLUID MOTION, PARTICLES, AND LIVING ORGANISMS IN THREE DIMENSIONS.	465,735.
NANWAKOLAS COUNCIL 1441 16TH AVENUE CAMPBELL RIVER BC CANADA V9W 2E4	NONE NC	TO SUPPORT BRITISH COLUMBIA HABITAT PROTECTION.	405,000.
NANWAKOLAS COUNCIL 1441 16TH AVENUE CAMPBELL RIVER BC CANADA V9W 2E4	NONE NC	TO ENABLE SUSTAINABLE SHIPPING.	560,000.
NAPA COUNTY LAND TRUST 1700 SOSCOL AVENUE SUITE 20 NAPA, CA 94559	NONE PC	TO SUPPORT THE ACQUISITION, INITIAL STEWARDSHIP, AND PERMANENT PROTECTION OF THE 1,031-ACRE CHILES VALLEY PROPERTY IN NAPA COUNTY.	928,188.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ACADEMY OF SCIENCES 500 FIFTH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE CONTINUED WORK OF THE ROUNDTABLE ON QUALITY CARE FOR PEOPLE WITH SERIOUS ILLNESS.	250,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF INNOVATIVE PILOTS TO TEST NEW MODALITIES AND CHANGES TO THE CONSENSUS PROCESS.	499,917.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF A SERIES OF MEETINGS ON DATA SCIENCE POST-SECONDARY EDUCATION TO DETERMINE HOW BEST TO PREPARE FUTURE PROFESSIONALS AND ACADEMICS WORKING IN THIS EMERGING FIELD.	33,392.
NATIONAL ACADEMY OF SCIENCES 500 FIFTH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE CREATION OF A MULTIDISCIPLINARY COMMITTEE TO EXAMINE THE POTENTIAL IMPACT OF EMERGING TECHNOLOGIES THAT RELATE TO HEALTH AND MEDICINE, AND DEVELOP A MULTI-SECTORAL GOVERNANCE FRAMEWORK TO GUIDE ADOPTION AND IMPLEMENTATION OF NEW TECHNOLOGY.	500,824.
NATIONAL AUDUBON SOCIETY, INC. 225 VARICK STREET, 7TH FLOOR NEW YORK, NY 10014	NONE PC	TO PROMOTE SCIENCE-BASED FISHERIES MANAGEMENT.	443,981.
NATIONAL COMMITTEE FOR QUALITY ASSURANCE 1100 13TH STREET NW, THIRD FLOOR WASHINGTON, DC 20005	NONE PC	TO SUPPORT THE DEVELOPMENT OF AN ACCOUNTABILITY/ACCREDITATION PROGRAM FOR SERIOUS ILLNESS CARE, INCLUDING TESTING QUALITY MEASURES IN A LEARNING COLLABORATIVE COMPRISED OF FOUR PROGRAMS THAT CARE FOR SERIOUSLY ILL PATIENTS IN THE COMMUNITY.	417,777.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL GEOGRAPHIC SOCIETY PO BOX 98199 WASHINGTON, DC 20090-8199	NONE PC	TO SUPPORT DEVELOPMENT OF A DYNAMIC PLATFORM FOR MONITORING BIODIVERSITY.	1,983,863.
NATIONAL MARINE SANCTUARY FOUNDATION 8601 GEORGIA AVENUE, SUITE 510 SILVER SPRING, MD 20910	NONE PC	TO SUPPORT THE SYNTHESIS OF EXISTING SCIENCE TO HELP IDENTIFY IMPORTANT OCEAN HABITATS.	169,885.
NATIONAL QUALITY FORUM 1099 14TH STREET NW, SUITE 500 WASHINGTON, DC 20005	NONE PC	TO SUPPORT THE DEVELOPMENT OF A WORKGROUP, A SERIES OF ANNUAL CONVENINGS, AND IMPLEMENTATION TOOLS ALL RELATED TO ADVANCING QUALITY MEASURES FOR COMMUNITY-BASED SERIOUS ILLNESS CARE.	378,000.
NATIONAL WILDLIFE FEDERATION 11100 WILDLIFE CENTER DRIVE RESTON, VA 20190	NONE PC	TO IMPLEMENT THE AGRICULTURE COLLABORATION FOR THE FORESTS AND AGRICULTURAL MARKETS INITIATIVE.	2,112,374.
NATIONAL WILDLIFE FEDERATION 11100 WILDLIFE CENTER DRIVE RESTON, VA 20190	NONE PC	IN SUPPORT OF PROMOTING GLOBAL AGRICULTURE SUSTAINABILITY.	300,000.
NATURAL RESOURCES DEFENSE COUNCIL INC. 40 WEST 20TH STREET NEW YORK, NY 10011	NONE PC	TO SUPPORT SUSTAINABLE OCEAN MANAGEMENT.	230,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATURAL RESOURCES DEFENSE COUNCIL INC. 40 WEST 20TH STREET NEW YORK, NY 10011	NONE PC	TO ENABLE BETTER OCEAN INFRASTRUCTURE SITING.	150,000.
NATURE CANADA 75 ALBERT STREET, SUITE 300 OTTAWA ON CANADA K1P 5E7	NONE PC	TO SECURE CANADA'S MARINE CONSERVATION TARGETS.	150,000.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	IN SUPPORT OF ENSURING THE SUCCESS AND DURABILITY OF CATCH SHARES IN THE WEST COAST GROUND FISH FISHERY AND EXPORTING LESSONS AND EXPERTISE TO CATALYZE FISHERY REFORMS ELSEWHERE; AND ANALYZING PRIORITIES FOR WEST COAST CONSERVATION AND MAKING INITIAL STEPS TOWARDS IMPACT, PARTICULARLY IN CALIFORNIA STATE FISHERIES.	300,000.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO HELP ENSURE THAT THE DANJIANG WETLAND NATIONAL NATURE RESERVE IS MANAGED AS A MODEL FOR PROTECTING WATERSHED HABITAT AS A FORM OF SOURCE-WATER PROTECTION.	574,750.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO DEVELOP THE MECHANISMS NEEDED TO SCALE WATER FUNDS GLOBALLY.	450,000.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO SUPPORT THE CREATION OF A WATER TRUST IN THE SACRAMENTO VALLEY THAT ALLOWS WATER TO BE MANAGED FOR ECOSYSTEM BENEFITS WHILE DELIVERING A RETURN TO INVESTORS.	300,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO IMPLEMENT THE AGRICULTURE COLLABORATION FOR THE FORESTS AND AGRICULTURAL MARKETS INITIATIVE.	3,997,777.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO ENHANCE THE EFFECTIVENESS AND DURABILITY OF GROUNDFISH SECTOR MANAGEMENT IN NEW ENGLAND THROUGH COMMUNITY SUPPORT, POLICY ENGAGEMENT, AND PERMIT BANKS; AND ADVANCING IMPROVED MONITORING AND FINANCING FOR TRANSITION COSTS.	530,786.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO CREATE, DEPLOY AND SCALE A ROBUST ENVIRONMENTAL FRAMEWORK AND ASSOCIATED MONITORING APPROACH FOR INTEGRATION INTO FINANCE PROGRAMS TO ENSURE THEIR ENVIRONMENTAL INTEGRITY AND CONSERVATION IMPACT.	498,500.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO HELP INCREASE THE VALUE OF THE NORTHEAST OCEAN DATA PORTAL TO A BROAD SWATH OF USERS BY FOCUSING ON THREE ASPECTS: TRAINING KEY USERS, CREATING VALUE IN THE PORTAL FOR ADDITIONAL USER GROUPS, AND IMPROVING CONTENT AND TECHNICAL FUNCTIONALITY.	132,839.
NATURE CONSERVANCY 4245 NORTH FAIRFAX DRIVE, SUITE 100 ARLINGTON, VA 22203-1606	NONE PC	TO SUPPORT SUSTAINABLE FISHERIES AND HABITAT PROTECTION IN BRITISH COLUMBIA.	150,000.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE CONSERVATION LEGAL STRATEGIES FUND.	143,893.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO SUPPORT A FINANCE HUB THAT WILL SUPPORT IMPLEMENTATION OF THE CONSERVATION AND MARKETS INITIATIVE'S GOAL OF INCREASING AWARENESS OF NATURAL RESOURCE RISK AMONG FINANCIAL INSTITUTIONS.	6,484,192.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO IDENTIFY AND PRIORITIZE OPPORTUNITIES TO ADVANCE THE CONSERVATION OF LARGE-SCALE, INTACT ECOSYSTEMS THROUGH THE APPLICATION OF CONSERVATION TECHNOLOGY AND THE SCIENCE OF CLIMATE-PROOFING CONSERVATION.	959,470.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF A SECOND PHASE FOR THE COLORADO RIVER SUSTAINABILITY CAMPAIGN.	2,174,864.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO IMPLEMENT THE SEAFOOD COLLABORATION FOR THE OCEANS AND SEAFOOD MARKETS INITIATIVE.	7,329,402.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO SUPPORT CAPACITY TO SUSTAIN WILD SALMON ECOSYSTEM CONSERVATION IN ALASKA.	195,320.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE COLORADO RIVER SUSTAINABILITY CAMPAIGN.	250,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE SCIENCE PHILANTHROPY ALLIANCE'S 2019 ACTIVITIES TO STRENGTHEN PHILANTHROPIC SUPPORT FOR BASIC RESEARCH.	450,000.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO CONSOLIDATE APPROXIMATELY 20 MILLION HECTARES OF PROTECTED AREAS AND INDIGENOUS LANDS IN HIGH BIODIVERSITY MOSAICS IN THE ANDES AMAZON REGION.	1,450,000.
NEW YORK HALL OF SCIENCE 4701 111TH STREET CORONA, NY 11368	NONE PC	IN SUPPORT OF IDENTIFYING AND ARTICULATING BEST PRACTICES FOR SCIENCE CENTERS TO SUPPORT DEEPER AND MORE EXTENDED ENGAGEMENT IN SCIENCE.	407,250.
NEW YORK UNIVERSITY 665 BROADWAY, SUITE 801 NEW YORK, NY 10012	NONE PC	TO SUPPORT DATA SCIENTISTS IN PURSUIT OF SCIENTIFIC RESEARCH ACROSS THE LIFE, PHYSICAL AND SOCIAL SCIENCES AS WELL AS EXPERIMENTATION TO IDENTIFY THE BEST METHODOLOGIES TO IMPROVE DATA SCIENCE PRACTICE WITHIN ACADEMIA.	2,000,000.
NORTHERN CALIFORNIA GRANTMAKERS 160 SPEAR STREET, SUITE 360 SAN FRANCISCO, CA 94105	NONE PC	IN SUPPORT OF INITIATIVES TO BOLSTER THE NORTHERN CALIFORNIA AND STATEWIDE FUNDER COMMUNITIES.	225,000.
NORTHWESTERN UNIVERSITY 2145 SHERIDAN ROAD EVANSTON, IL 60208	NONE PC	TO DEVELOP STATE-OF-THE-ART COMPUTATIONAL MODELS FOR THE EVOLUTION OF BINARY STARS THAT LEAD TO BLACK HOLE COLLISIONS.	750,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NORTHWESTERN UNIVERSITY 676 N STREET CLAIR STREET SUITE 1400 CHICAGO, IL 60611	NONE PC	TO SUPPORT THE DEVELOPMENT OF A CLINICAL QUALITY MEASURE TO IMPROVE EARLY DIAGNOSIS OF COLON CANCER.	499,000.
NUMFOCUS INC. PO BOX 90596 AUSTIN, TX 78709	NONE PC	IN SUPPORT OF SUSTAINING THE ASTROPY PROJECT, AN OPEN-SOURCE FRAMEWORK FOR DATA-DRIVEN RESEARCH AND DISCOVERY IN ASTRONOMY.	300,900.
NUMFOCUS INC. PO BOX 90596 AUSTIN, TX 78709	NONE PC	IN SUPPORT OF PROJECTS AND CORE LANGUAGE DEVELOPMENT FOR THE R SCIENTIFIC PROGRAMMING LANGUAGE.	220,000.
OCEAN CONSERVANCY INC. 1300 19TH STREET NW, 8TH FLOOR WASHINGTON, DC 20036	NONE PC	TO REIMAGINE FISHERY MANAGEMENT USING AN AGENT-BASED MODELING APPROACH.	669,000.
OCEAN CONSERVANCY INC. 1300 19TH STREET NW, 8TH FLOOR WASHINGTON, DC 20036	NONE PC	TO PROTECT THE ECOLOGICAL GEMS OF THE U.S. BERING AND CHUKCHI SEAS AND SECURE AN ECOSYSTEM-BASED MANAGEMENT REGIME FROM THE ALEUTIAN ISLANDS TO THE CENTRAL ARCTIC OCEAN THAT PREVENTS UNSUSTAINABLE IMPACTS OF INCREASED SHIPPING AND FISHING.	3,649,531.
OCEAN CONSERVANCY INC. 1300 19TH STREET NW, 8TH FLOOR WASHINGTON, DC 20036	NONE PC	TO ENSURE SUSTAINABLE FISHERIES IN CANADA.	150,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
OCEAN CONSERVANCY INC. 1300 19TH STREET NW, 8TH FLOOR WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF ADVANCING REGIONAL OCEAN PLANNING.	275,000.
OCEAN FOUNDATION 1320 19TH STREET NW, SUITE 500 WASHINGTON, DC 20036	NONE PC	TO SUPPORT EDUCATION AND OUTREACH FOR SCIENCE-BASED FISHERIES MANAGEMENT.	200,000.
OCEANA CANADA 18 KING STREET EAST, SUITE 505 TORONTO ON CANADA M5C 1C4	NONE PC	TO ENABLE SUSTAINABLE FISHERIES IN CANADA.	500,000.
OCEANA INC. 1025 CONNECTICUT AVE NW, SUITE 200 WASHINGTON, DC 20036	NONE PC	TO SUPPORT EDUCATION AND OUTREACH TOWARDS SCIENCE-BASED FISHERIES MANAGEMENT AND HEALTHY OCEAN ECOSYSTEMS.	250,000.
OCEANS NORTH CONSERVATION SOCIETY 100 GLOUCESTER STREET, SUITE 602 OTTAWA ON CANADA K2P 0A2	NONE PC	TO ADVANCE THE PROTECTION OF MARINE ECOSYSTEMS AND SUSTAINABLE USES BY COASTAL COMMUNITIES IN THE EASTERN CANADIAN ARCTIC.	500,103.
OPERACAO AMAZONIA NATIVA AVENIDA IPIRANGA, 97 - GOIABEIRAS CUIABA MT BRAZIL 78032-035	NONE PC	TO SUPPORT THE PROTECTION OF FRESHWATER ECOSYSTEMS IN PRIORITY AREAS OF THE ANDES-AMAZON REGION IN BRAZIL, PERU AND COLOMBIA.	154,834.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
OREGON STATE UNIVERSITY COLLEGE OF PHARMACY, OREGON STATE UNIVERSITY CORVALLIS, OR 97331	NONE GOV	IN SUPPORT OF LABORATORY AND FIELD EXPERIMENTS TO UNDERSTAND THE CHEMISTRY THAT UNDERLIES MICROBE-MICROBE INTERACTIONS IN COMPLEX, THREE-DIMENSIONAL LIVING ROCK STRUCTURES.	554,530.
PACIFIC ENVIRONMENT AND RESOURCES CENTER 473 PINE STREET, 3RD FLOOR SAN FRANCISCO, CA 94104	NONE PC	TO STRENGTHEN DOMESTIC AND INTERNATIONAL SAFEGUARDS TO PROTECT ECOSYSTEMS AND COMMUNITIES FROM HARMS OF INCREASED VESSEL TRAFFIC IN THE ARCTIC OCEAN.	476,577.
PARTNERS HEALTHCARE SYSTEM, INC. 399 REVOLUTION DRIVE, SUITE 740 SOMERVILLE, MA 02145	NONE PC	TO EXPAND AND SUSTAIN THE PRIMARY CARE RESEARCH IN DIAGNOSIS ERRORS (PRIDE) DIAGNOSTIC LEARNING AND IMPROVEMENT NETWORK BY BUILDING A LARGE REPOSITORY OF DIAGNOSTIC ERROR CASES IN PRIMARY CARE SETTINGS WITH AN EMPHASIS ON INFECTIONS, CARDIOVASCULAR DISEASE AND CANCER.	600,000.
PENINSULA OPEN SPACE TRUST 222 HIGH STREET PALO ALTO, CA 94301	NONE PC	FOR PERMANENT PROTECTION OF THE GORDON RIDGE AND RISING ACRES PROPERTIES ON THE SAN MATEO COAST.	1,200,000.
PENINSULA OPEN SPACE TRUST 222 HIGH STREET PALO ALTO, CA 94301	NONE PC	TO SUPPORT PERMANENT PROTECTION OF 1,222 ACRES IN THE SANTA CRUZ MOUNTAINS, WHICH WILL CONNECT AND EXPAND LARGE BLOCKS OF HABITAT AND OPEN SPACE.	1,250,000.
PERIMETER INSTITUTE 31 CAROLINE STREET NORTH WATERLOO ON CANADA N2L 2Y5	NONE PC	IN SUPPORT OF WORKSHOPS AND SCIENTIFIC EXCHANGE VISITS THAT PROMOTE NEW EXPERIMENTS FOR FUNDAMENTAL PHYSICS.	30,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PLANET LABS INC. 346 9TH STREET SAN FRANCISCO, CA 94103	NONE NC	TO LEVERAGE ADVANCES IN REMOTE SENSING, ARTIFICIAL INTELLIGENCE, REAL-TIME MODELING AND CLOUD COMPUTING TECHNOLOGIES TO SUPPORT DYNAMIC AND ANALYTIC WILDFIRE RISK MAPPING AND RESPONSE.	575,000.
POINT REYES BIRD OBSERVATORY 3820 CYPRESS DRIVE #11 PETALUMA, CA 94954	NONE PC	IN SUPPORT OF RECOMMENDATIONS FOR CONSERVATION PRIORITIES FOR ECOSYSTEM FUNCTION AND RESILIENCE ON THE U.S. WEST COAST, AND SCIENCE-BASED RECOMMENDATIONS FOR SHIP STRIKE MITIGATION MEASURES.	262,423.
PONTIFICIA UNIVERSIDAD CATOLICA DEL PERU AV. UNIVERSITARIA 1801, SAN MIGUEL LIMA PERU	NONE PC	TO DEVELOP AN UNDERSTANDING OF LEGAL AND POLICY FRAMEWORKS OF PRIMARY AND SECONDARY ROAD PROJECTS IN THE PERUVIAN AMAZON.	82,880.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE HOLYOKE CENTER, 1350 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF ACHIEVING A DEEPER UNDERSTANDING OF THE LINKS BETWEEN ECOSYSTEM STRUCTURE, FUNCTION, AND LONG-TERM STABILITY BY USING ISOTOPE-ENABLED METHODS TO ILLUMINATE THE AVAILABILITY OF ENERGY AND NUTRIENTS TO MARINE MICROBES.	203,200.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF LEADING-EDGE RESEARCH TO BUILD NOVEL MULTI-COMPONENT QUANTUM MATERIALS (HETEROSTRUCTURES) AND TO SEARCH FOR EXOTIC QUANTUM PHENOMENA, PRIMARILY AT THE INTERFACE BETWEEN DISSIMILAR MATERIALS OF SUCH STRUCTURES.	200,000.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 79 JOHN F. KENNEDY STREET CAMBRIDGE, MA 02138	NONE PC	TO ASSESS THE CONSTRAINTS TO ECONOMIC GROWTH IN THE PERUVIAN DEPARTMENT OF LORETO, PERU.	386,497.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF SYNTHESIS, IMAGING, AND MANIPULATION OF NOVEL TYPES OF ARTIFICIAL QUANTUM MATERIALS, AIMED AT CREATING NOVEL SUPERCONDUCTING PHASES AND FUNCTIONALITIES.	131,417.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF THE LABORATORY OF DR. JULIA MUNDY, WHICH WILL TARGET EXPLORATORY SYNTHESIS AND CHARACTERIZATION OF METASTABLE COMPLEX OXIDES WHERE THE LOCAL CHEMICAL ENVIRONMENT CAN BE TUNED AT THE ATOMIC SCALE.	500,000.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF RESEARCH TO ELUCIDATE FUNDAMENTAL PHYSICS MYSTERIES THROUGH ANALYSIS OF ASTRONOMICAL PHENOMENA.	333,333.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	250,000.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 29 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF RESEARCH AND DEVELOPMENT FOR A FUNDAMENTALLY NEW STRATEGY FOR SINGLE MOLECULE SENSING AND ENVIRONMENTAL TOXIN METROLOGY USING PICOSCALE QUANTUM SENSORS.	225,000.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 100 EDWIN H. LAND BOULEVARD CAMBRIDGE, MA 02142	NONE PC	TO SUPPORT THE DEVELOPMENT OF A HIGH SPEED, LOW-COST, ROBUST MICROSACLE 3D PRINTER FOR A WIDE RANGE OF APPLICATIONS.	225,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 12 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	TO DESIGN A BENCHTOP PROOF-OF-CONCEPT DUAL NANOSCALE NUCLEAR MAGNETIC RESONANCE SPECTROMETER AND MAGNETIC RESONANCE IMAGING MACHINE ON A CHIP TO ENABLE DIVERSE APPLICATIONS FROM SINGLE-CELL BIOLOGY TO TISSUE MICROSTRUCTURE IMAGING.	170,000.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 20 GARDEN STREET, 2ND FLOOR CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF INTERDISCIPLINARY POSTDOCTORAL FELLOWS AT THE BLACK HOLE INITIATIVE TO HELP LEAD NEW INSIGHTS INTO THE RESEARCH AND NATURE OF BLACK HOLES.	2,400,000.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT QUANTUM SIMULATION AND MEASUREMENT OF ENTANGLEMENT ENTROPY TO UNDERSTAND QUANTUM MANY-BODY SYSTEMS.	266,042.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	TO DEVELOP COLOR VACANCY CENTERS IN DIAMONDS FOR A NEW GENERATION OF QUANTUM SENSORS WITH INCREASED SENSITIVITY AND SOPHISTICATION TO PROBE THE PHYSICAL PROPERTIES OF COMPLEX SYSTEMS.	800,000.
PRI ASSOCIATION 25 CAMPERDOWN STREET LONDON UNITED KINGDOM	NONE PC	TO MOBILIZE A GLOBAL COHORT OF INVESTORS TO INTEGRATE RISKS ASSOCIATED WITH AGRICULTURAL COMMODITIES AND RESULTING DEFORESTATION AND LAND USE CHANGE INTO THEIR PRACTICES, DECISION-MAKING, AND PORTFOLIOS.	313,875.
PROFONANPE - FONDO DE PROMOCION DE LAS AREAS NATUR AVENIDA JAVIER PRADO OESTE 2378 LIMA PERU 27	NONE PC	TO INCREASE THE INSTITUTIONAL CAPACITY OF KEY NATIONAL AGENCIES TO IMPLEMENT PERU'S NATURAL LEGACY IN ALIGNMENT WITH NATIONAL LEVEL CONSERVATION POLICIES.	520,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PROFONANPE - FONDO DE PROMOCION DE LAS AREAS NATUR AVENIDA JAVIER PRADO OESTE 2378 LIMA PERU 27	NONE PC	TO ESTABLISH PERU'S NATURAL LEGACY FUND AS A LONG-TERM SUSTAINABLE FINANCE MODEL FOR PERU'S PROTECTED AREAS SYSTEM.	113,000.
PUBLIC HEALTH INSTITUTE 555 12TH STREET, 10TH FLOOR OAKLAND, CA 94607	NONE PC	TO PROVIDE SUPPORT FOR EFFORTS TO ADVANCE A STATEWIDE MOVEMENT TO MAKE SUSTAINED SUPPORT FOR CHRONIC DISEASE PREVENTION AND HEALTH EQUITY A REALITY IN CALIFORNIA.	315,000.
PUBLIC HEALTH INSTITUTE 555 12TH STREET, 10TH FLOOR OAKLAND, CA 94607	NONE PC	TO PROVIDE SUPPORT FOR THE EFFORTS OF THE CALIFORNIA ALLIANCE FOR FUNDING PREVENTION TO INTEGRATE PRIMARY PREVENTION INTO THE PATIENT EXPERIENCE.	31,059.
PUBLIC LABORATORY FOR OPEN TECHNOLOGY AND SCIENCE 55 CROMWELL STREET, SUITE 1C PROVIDENCE, RI 02907	NONE PC	TO SUPPORT EFFORTS TO STRENGTHEN AND SPREAD COMMUNITY SCIENCE PROJECTS BY ENABLING NEW LEADERS, TRAINING EDUCATORS, AND SUPPORTING MULTIDISCIPLINARY TEAMS TO WORK DIRECTLY IN COMMUNITIES.	1,134,554.
RAND CORPORATION 1776 MAIN STREET SANTA MONICA, CA 90401-3208	NONE PC	TO SUPPORT THE DEVELOPMENT, TESTING AND APPROVAL OF NEW SURVEY TOOLS AND THE DEVELOPMENT OF QUALITY MEASURES TO ASSESS HOW HIGH-NEED PATIENTS AND THEIR FAMILY CAREGIVERS EXPERIENCE CARE RECEIVED IN COMMUNITY-BASED SERIOUS ILLNESS PROGRAMS.	760,229.
RARE INC. 1310 N COURTHOUSE ROAD, SUITE 110 ARLINGTON, VA 22201	NONE PC	IN SUPPORT OF BEHAVIORAL SCIENCE AND ENVIRONMENTAL CONSERVATION.	1,000,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF CALIFORNIA 420 LATIMER HALL UNIVERSITY OF CALIFORNIA BERKELEY, CA 94720-1460	NONE GOV	IN SUPPORT OF THE COLLABORATIVE PROJECT 'BREAKING THE CENTRAL DOGMA: REVERSE TRANSLATION OF THE PROTEOME' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 3333 CALIFORNIA STREET, SUITE 315 SAN FRANCISCO, CA 94143-0962	NONE GOV	TO SUPPORT THE USE OF ELECTRONIC HEALTH RECORD AUDIT LOG DATA TO CAPTURE CONTEXTUAL CONTRIBUTORS TO DIAGNOSTIC PERFORMANCE.	374,375.
REGENTS OF THE UNIVERSITY OF CALIFORNIA OFFICE OF RESEARCH, 141 INNOVATION SUITE 250 IRVINE, CA 92697-7600	NONE GOV	TO SUPPORT THE DEVELOPMENT OF CLINICAL QUALITY MEASURES TO IMPROVE THE DIAGNOSIS OF CARDIOVASCULAR DISEASE IN PREGNANT AND POSTPARTUM WOMEN.	326,195.
REGENTS OF THE UNIVERSITY OF CALIFORNIA KOHN HALL, UNIVERSITY OF CALIFORNIA SANTA BARBARA, CA 93106	NONE GOV	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	300,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE GOV	TO SUPPORT THE DEVELOPMENT OF A CLINICAL QUALITY MEASURE TO IMPROVE DIAGNOSIS OF SEPSIS.	498,750.
REGENTS OF THE UNIVERSITY OF CALIFORNIA	NONE	IN SUPPORT OF THE COLLABORATIVE PROJECT 'A PLANT CELL-BASED PLATFORM TO TARGET HUMAN PROTEOSTASIS DISEASES' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED	56,250.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
10833 LE CONTE AVE 11-934 FACTOR BUILDING LOS ANGELES, CA 90095	GOV	THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	
REGENTS OF THE UNIVERSITY OF CALIFORNIA 366 LECONTE HALL, MC 7300 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. JAMES ANALYTIS EXPLORING THE SYNTHESIS OF NOVEL MATERIALS WITH ELECTRICALLY OR MAGNETICALLY ACTIVE PROPERTIES THAT ARISE DUE TO STRONG QUANTUM INTERACTIONS AND LOW SYMMETRIES.	762,725.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 366 LECONTE HALL, MC 7300 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	250,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1102 NATURAL SCIENCES 2 IRVINE, CA 92697-2025	NONE GOV	IN SUPPORT OF THE COLLABORATIVE PROJECT 'OPTICAL MIND READING' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
REGENTS OF THE UNIVERSITY OF CALIFORNIA	NONE	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL DEVELOP NEW METHODS FOR OPTICAL AND X-RAY MICROSCOPY, USING SIMPLE OPTICAL SETUPS AND EFFICIENT, SCALABLE ALGORITHMS TO ACHIEVE IMAGING	350,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
2150 SHATTUCK AVENUE, SUITE 300 BERKELEY, CA 94704	GOV	VOLUMES AND RESOLUTIONS NOT POSSIBLE BY TRADITIONAL SYSTEMS.	
REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE #0332 LA JOLLA, CA 92093-0332	NONE GOV	IN SUPPORT OF THE COLLABORATIVE PROJECT 'WHAT DOES SELF LOOK LIKE' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 220 MONTGOMERY STREET, SUITE 500 CUPERTINO, CA 94104	NONE GOV	IN SUPPORT OF THE 2019 AND 2020 BAY AREA SCIENCE FESTIVALS.	112,500.
REGENTS OF THE UNIVERSITY OF CALIFORNIA SCHOOL OF VETERINARY MEDICINE, ONE SHIELDS AVENUE DAVIS, CA 95616	NONE GOV	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH; FUNDS FROM THIS AWARD WILL BE USED TO BETTER UNDERSTAND GENE FUNCTION IN NON-MODEL ORGANISMS THROUGH THE DEVELOPMENT OF NEW WORKFLOWS AND BETTER DATA SHARING TECHNOLOGY FOR LARGE-SCALE DATA ANALYSIS.	650,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA	NONE	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL PRODUCE NEW TECHNIQUES FOR RESOLVING THE DOMINANT PROCESSES CONTROLLING THE EVOLUTION OF LANDSCAPES	350,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
507 MCCONE HALL BERKELEY, CA 94720	GOV	AND PREDICTING IMMINENT TRANSITIONS IN THEIR FORM AND FUNCTION.	
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1850 RESEARCH PARK DRIVE DAVIS, CA 95618	NONE GOV	TO COMPLETE THE LAUNCH OF THE BETTY IRENE MOORE SCHOOL OF NURSING.	4,552,266.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1850 RESEARCH PARK DRIVE DAVIS, CA 95618	NONE GOV	TO SUPPORT THE BETTY IRENE MOORE SCHOOL OF NURSING AT THE UNIVERSITY OF CALIFORNIA, DAVIS IN DEVELOPING, IMPLEMENTING AND EXECUTING A NATIONAL FELLOWSHIP PROGRAM FOR NURSE LEADERS AND INNOVATORS.	6,798,678.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1 CENTENNIAL DRIVE BERKELEY, CA 94720-5200	NONE GOV	TO SUPPORT AN ORGANIZATIONAL REBRANDING AND FACILITIES REFRESH EFFORT THAT ENHANCES VISITOR EXPERIENCE AND BETTER COMMUNICATES ORGANIZATIONAL MISSION AND VALUES.	800,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1156 HIGH STREET SANTA CRUZ, CA 95064	NONE GOV	IN SUPPORT OF A POSTDOCTORAL FELLOW TO WORK WITH PROFESSOR RYAN FOLEY ON TIME-DOMAIN ASTRONOMY AND COSMOLOGY.	533,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1850 RESEARCH PARK DRIVE, SUITE 300 DAVIS, CA 95618-6153	NONE GOV	IN SUPPORT OF A COMPREHENSIVE SCIENTIFIC STUDY TO UNDERSTAND AND QUANTIFY BENEFITS AND POTENTIAL ENVIRONMENTAL RISKS OF AGRICULTURAL GROUNDWATER BANKING, WHICH IS ONE OF THE MOST PROMISING SOLUTIONS TO MANAGED GROUNDWATER RECHARGE IN CALIFORNIA'S CENTRAL VALLEY.	540,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF CALIFORNIA 366 LECONTE HALL, MC 7300 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF LEARNING RESOURCES FOR SCIENTIFICALLY-GROUNDED CRITICAL THINKING.	990,331.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE, MAIL CODE 0210 LA JOLLA, CA 92093-0210	NONE GOV	IN SUPPORT OF COMBINING ADVANCED MICROSCOPY, MOLECULAR GENETIC TOOLS, AND BIOCHEMISTRY TECHNIQUES IN NEW WAYS TO INVESTIGATE THE CONSUMPTION BY MARINE BACTERIA OF CELLULAR DEBRIS RELEASED FROM DYING PHYTOPLANKTON TO CREATE A NEW WINDOW OF UNDERSTANDING INTO THE MARINE CARBON CYCLE.	99,168.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 420 LATIMER HALL UNIVERSITY OF CALIFORNIA BERKELEY, CA 94720-1460	NONE GOV	IN SUPPORT OF THE COLLABORATIVE PROJECT 'OPTICAL MIND READING' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE, MAIL CODE 0210 LA JOLLA, CA 92093-0210	NONE GOV	IN SUPPORT OF GENERATING NEW KNOWLEDGE OF HOW THE GENES, BIOCHEMICAL PATHWAYS, AND OTHER GENOME-SCALE CHARACTERISTICS OF REPRESENTATIVES OF THE MAJOR MICROEUKARYOTIC PHYTOPLANKTON LINEAGES CONTRIBUTE TO VARIATIONS IN CELLULAR INTERACTIONS AND NUTRIENT BIOGEOCHEMISTRY.	179,400.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 4415 CHEM ANNEX, ONE SHIELDS AVENUE	NONE	IN SUPPORT OF WORKSHOPS AND A SCIENTIST EXCHANGE PROGRAM TO ADVANCE OUR UNDERSTANDING OF QUANTUM MATERIALS.	62,100.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DAVIS, CA 95616-5270	GOV		
REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE, #0608 LA JOLLA, CA 92093-0608	NONE GOV	IN SUPPORT OF THE COLLABORATIVE PROJECTS 'OPTICAL MIND READING' & 'FINDING MITOCHONDRIAL MEMORY' PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	112,500.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1850 RESEARCH PARK DRIVE DAVIS, CA 95618	NONE GOV	TO SUPPORT THE BETTY IRENE MOORE SCHOOL OF NURSING TO LAUNCH THE FAMILY CAREGIVING INSTITUTE TO SUPPORT HEALTH AND WELLBEING FOR PERSONS WITH CHRONIC AND SERIOUS ILLNESS, AND THEIR FAMILY AND CAREGIVERS.	1,000,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 111 KOSHLAND HALL BERKELEY, CA 94720-3102	NONE GOV	TO SUPPORT DATA SCIENTISTS IN PURSUIT OF SCIENTIFIC RESEARCH ACROSS THE LIFE, PHYSICAL AND SOCIAL SCIENCES AS WELL AS EXPERIMENTATION TO IDENTIFY THE BEST METHODOLOGIES TO IMPROVE DATA SCIENCE PRACTICE WITHIN ACADEMIA.	2,000,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA	NONE	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL FOSTER THE DEVELOPMENT AND ESTABLISHMENT OF METHODOLOGIES AND COMPUTATIONAL PRACTICES FOR DATA-DRIVEN DISCOVERY AND INFERENCE IN TIME-DOMAIN ASTROPHYSICS AND OTHER RELATED	300,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
B-20 HEARST FIELD ANNEX # 3411 BERKELEY, CA 94720	GOV	FIELDS.	
REGENTS OF THE UNIVERSITY OF CALIFORNIA 366 LECONTE HALL, MC 7300 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF LEADING-EDGE RESEARCH TO DEVELOP NEW EXPERIMENTAL APPROACHES TO STUDYING QUANTUM MATERIALS WITH TERAHERTZ SPECTROSCOPY.	504,815.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 366 LECONTE HALL, MC 7300 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF THE MOORE POSTDOCTORAL SCHOLARS IN THEORY OF QUANTUM MATERIALS PROGRAM AT UNIVERSITY OF CALIFORNIA, BERKELEY.	92,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 366 LECONTE HALL, MC 7300 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF THE MATERIALS SYNTHESIS AND CHARACTERIZATION LABORATORY OF DR. JAMES ANALYTIS, WHICH WILL TARGET THE DISCOVERY, DEVELOPMENT AND ADVANCED CHARACTERIZATION OF QUANTUM MATERIALS.	94,455.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 111 KOSHLAND HALL BERKELEY, CA 94720-3102	NONE GOV	IN SUPPORT OF RESEARCH AND DEVELOPMENT TO ENGINEER NEW SYNTHETIC DISEASE RESISTANCE GENES THAT CAN DETECT PLANT PATHOGENS.	225,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA B-20 HEARST FIELD ANNEX # 3411 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF THE CONTINUED DEVELOPMENT OF SKYPORTAL, A COLLABORATIVE DATA PLATFORM FOR ASTRONOMICAL ALERT SYSTEMS.	350,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1111 FRANKLIN STREET, 9TH FLOOR OAKLAND, CA 94607-5200	NONE GOV	TO PROVIDE SUPPORT FOR THE THIRTY METER TELESCOPE.	5,000,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 366 LECONTE HALL, MC 7300 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF ASTRONOMICAL OBSERVATIONS THAT TEST THEORIES OF THE EARLY UNIVERSE.	850,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA EARTH AND MARINE SCIENCES BUILDING A232 SANTA CRUZ, CA 95064	NONE GOV	IN SUPPORT OF LABORATORY STUDIES AND FIELD EXPERIMENTS TO ENABLE DEVELOPMENT OF A SYSTEM FOR STORMWATER COLLECTION AND GROUNDWATER REPLENISHMENT IN DROUGHT-AFFECTED REGIONS OF CALIFORNIA.	85,136.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE, MAIL CODE 0210 LA JOLLA, CA 92093-0210	NONE GOV	IN SUPPORT OF ADVANCING PUBLICLY AVAILABLE ANALYTICAL CHEMISTRY TOOLS DESIGNED TO HELP SCIENTISTS IDENTIFY MOLECULES THAT MEDIATE BIOLOGICAL INTERACTIONS, INCLUDING SYMBIOSIS.	405,630.
REGENTS OF THE UNIVERSITY OF CALIFORNIA KOHN HALL, UNIVERSITY OF CALIFORNIA SANTA BARBARA, CA 93106	NONE GOV	IN SUPPORT OF BUILDING AN INTERDISCIPLINARY COMMUNITY OF RESEARCHERS AND STUDENTS TO BREAK DOWN BARRIERS BETWEEN DISCIPLINES AND SEEK TO EXPAND THE INTELLECTUAL REACH OF PHYSICS INTO FUNDAMENTAL PROBLEMS OF LIVING MATTER.	666,667.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 430 PORTOLA PLAZA, BOX 951547 LOS ANGELES, CA 90095	NONE GOV	TO SUPPORT THE SCIENTIFIC USE OF A NEW-GENERATION ADAPTIVE OPTICS SYSTEM AT THE KECK I TELESCOPE TO INVESTIGATE THE ENVIRONMENT AROUND THE BLACK HOLE AT THE CENTER OF THE MILKY WAY GALAXY.	481,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF CALIFORNIA 5200 ENGINEERING HALL IRVINE, CA 92697-2700	NONE GOV	TO SUPPORT THE RESEARCH AND DEVELOPMENT OF A PROCESS FOR PRODUCING HIGH-AFFINITY ANTIBODIES MORE QUICKLY AND AT A LOWER COST THAN CURRENTLY AVAILABLE METHODS.	225,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA ONE SHIELDS AVENUE DAVIS, CA 95616	NONE GOV	TO IMPROVE SCIENTIFIC UNDERSTANDING OF MEGAFIRES.	154,593.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1111 FRANKLIN STREET, 6TH FLOOR OAKLAND, CA 94607	NONE GOV	TO SUPPORT USE OF WIRELESS SENSOR NETWORKS AND ADVANCED IMAGING TECHNOLOGIES TO MONITOR WATER RESOURCES, VEGETATION, AND WILDLIFE IN THE UNIVERSITY OF CALIFORNIA NATURAL RESERVE SYSTEM.	594,496.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 190 DOE LIBRARY BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF CREATING RESEARCH SOFTWARE TOOLS FOR THE R PROGRAMMING LANGUAGE TO SERVE THE NEEDS OF SCIENCE.	497,163.
REGENTS OF THE UNIVERSITY OF COLORADO 4001 DISCOVERY DRIVE, UCB 608 SEEC N290 BOULDER, CO 80303	NONE PC	IN SUPPORT OF INNOVATIVE TECHNOLOGY FOR GROUNDWATER AND SURFACE WATER MONITORING TO IMPROVE DROUGHT AND WATER RISK MANAGEMENT.	750,000.
REGENTS OF THE UNIVERSITY OF COLORADO 390 UCB UNIVERSITY OF COLORADO BOULDER, CO 80309-0390	NONE PC	IN SUPPORT OF LEADING-EDGE RESEARCH TO DEVELOP NOVEL SOFT X-RAY SOURCES AND METHODS TO STUDY QUANTUM MATERIALS WITH HIGH SPATIAL AND TEMPORAL RESOLUTION AND WITH CHEMICAL SPECIFICITY.	360,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF COLORADO 1111 ENGINEERING DRIVE BOULDER, CO 80309	NONE PC	IN SUPPORT OF THE INVENTION OF AN OPTICAL METAMATERIAL AS A NEW GREENHOUSE ENVELOPE MATERIAL.	225,000.
REGENTS OF THE UNIVERSITY OF COLORADO 390 UCB UNIVERSITY OF COLORADO BOULDER, CO 80309-0390	NONE PC	IN SUPPORT OF NOVEL TECHNOLOGY-ENABLED LEARNING ENVIRONMENTS THAT HAVE THE POTENTIAL TO TRANSFORM HOW SCIENCE INQUIRY IS FOSTERED, SUPPORTED, ASSESSED, AND UNDERSTOOD.	530,000.
REGENTS OF THE UNIVERSITY OF MICHIGAN 1301 CATHERINE ROAD ANN ARBOR, MI 48109	NONE GOV	TO SUPPORT THE DEVELOPMENT OF CLINICAL QUALITY MEASURES TO IMPROVE DIAGNOSIS AND PREVENT OVER-DIAGNOSIS OF PNEUMONIA AND URINARY TRACT INFECTIONS.	441,711.
REGENTS OF THE UNIVERSITY OF MINNESOTA 450 MCNAMARA ALUMNI CENTER 200 OAK STREET SE MINNEAPOLIS, MN 55455-2070	NONE GOV	IN SUPPORT OF A LITERATURE REVIEW AND EXPERT CONVENING TO DEVELOP A CONSENSUS ROADMAP FOR THE DESIGN AND IMPLEMENTATION OF DIAGNOSTIC FEEDBACK SYSTEMS.	245,200.
RESCUE 1 FOUNDATION 1280 MORAGA WAY MORAGA, CA 94556	NONE PC	TO DEVELOP AND FIELD A NEW PERSISTENT WILDFIRE MONITORING, DETECTION, EARLY WARNING AND RESPONSE SYSTEM FOR THE WILDLAND URBAN INTERFACE.	100,000.
RESOURCES LEGACY FUND 555 CAPITOL MALL, SUITE 1095 SACRAMENTO, CA 95814	NONE PC	TO ENSURE PROGRESS ON SAN FRANCISCO BAYLANDS CONSERVATION.	375,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
RESOURCES LEGACY FUND 555 CAPITOL MALL, SUITE 1095 SACRAMENTO, CA 95814	NONE PC	TO HELP SUPPORT THE LAUNCH OF A NEW CALIFORNIA STATE PARKS SUPPORT ORGANIZATION.	1,000,000.
RESOURCES LEGACY FUND 555 CAPITOL MALL, SUITE 1095 SACRAMENTO, CA 95814	NONE PC	TO PROVIDE SUPPORT FOR AN OCEAN HABITAT STUDY.	150,000.
RESOURCES LEGACY FUND 555 CAPITOL MALL, SUITE 1095 SACRAMENTO, CA 95814	NONE PC	TO SUPPORT A SUSTAINABLE SHIPPING ANALYSIS.	31,000.
RESOURCES LEGACY FUND 555 CAPITOL MALL, SUITE 1095 SACRAMENTO, CA 95814	NONE PC	TO SUPPORT THE CONTINUATION OF A SMALL GRANTS PROGRAM FOR STRATEGIC PRE-ACQUISITION, PLANNING, FINANCING, POLICY, AND COLLABORATIVE SUPPORT IN BAY AREA CONSERVATION.	375,000.
RESOURCES LEGACY FUND 555 CAPITOL MALL, SUITE 1095 SACRAMENTO, CA 95814	NONE PC	TO SUPPORT LEADERSHIP IN OCEAN STEWARDSHIP.	500,000.
ROCKEFELLER PHILANTHROPY ADVISORS INC. 6 WEST 48TH STREET, 10TH FLOOR NEW YORK, NY 10036	NONE PC	IN SUPPORT OF THE FUND FOR SHARED INSIGHT, A COLLABORATIVE EFFORT TO INCREASE THE IMPACT OF PHILANTHROPY.	250,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ROYAL INSTIT. FOR THE ADVANC. OF LEARNING - MCGILL 3550 UNIVERSITY STREET MONTREAL QC CANADA H3A 2A7	NONE PC	TO SUPPORT CONCEPTUAL DESIGN AND SITE PREPARATION FOR CONSTRUCTION OF CHIME/FAST RADIO BURST OUTRIGGER TELESCOPES TO LOCALIZE FAST RADIO BURSTS AND IDENTIFY THEIR ORIGINS.	2,390,829.
RUTGERS THE STATE UNIVERSITY OF NEW JERSEY 136 FRELINGHUYSEN ROAD PISCATAWAY, NJ 08854	NONE GOV	IN SUPPORT OF RESEARCH TARGETING DISCOVERY OF NEW MATERIALS EXHIBITING MESOSCOPIC TOPOLOGICAL CHARGE, SPIN, AND/OR LATTICE STRUCTURE.	170,000.
RUTGERS THE STATE UNIVERSITY OF NEW JERSEY ASB III - 3 RUTGERS PLAZA NEW BRUNSWICK, NJ 08901	NONE GOV	IN SUPPORT OF ELUCIDATING THE FUNDAMENTAL PRINCIPLES THAT GOVERN SMALL-SCALE INTERACTIONS BETWEEN VIRUSES AND THEIR MICROBIAL HOSTS, MICROBES AND INFORMATION-CONTAINING MOLECULES, AND MICROBES AND THE OCEAN ENVIRONMENT AND THE SUBSEQUENT MANIFESTATION OF THESE INTERACTIONS ON MARINE ECOSYSTEM PROCESSES.	172,000.
RUTGERS THE STATE UNIVERSITY OF NEW JERSEY ASB III - 3 RUTGERS PLAZA NEW BRUNSWICK, NJ 08901	NONE GOV	IN SUPPORT OF BRINGING EVIDENCE TO POLICYMAKING THROUGH THE NEW JERSEY SCIENCE POLICY FELLOWSHIP PROGRAM.	207,726.
RUTGERS THE STATE UNIVERSITY OF NEW JERSEY 136 FRELINGHUYSEN ROAD PISCATAWAY, NJ 08854	NONE GOV	IN SUPPORT OF RESEARCH TARGETING DISCOVERY OF NEW MATERIALS EXHIBITING EMERGENT PHENOMENA SUCH AS UNCONVENTIONAL SUPERCONDUCTIVITY AND ANOMALOUS QUANTUM HALL EFFECT.	150,000.
SAINT MARY'S COLLEGE	NONE	IN SUPPORT OF THE COLLABORATIVE PROJECT 'A PLANT CELL-BASED PLATFORM TO TARGET HUMAN PROTEOSTASIS DISEASES' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM	56,250.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
184 SCIENCE HALL NOTRE DAME, IN 46556	PC	PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	
SALO SCIENCES, INC. PO BOX 40811 SAN FRANCISCO, CA 94140	NONE NC	TO LEVERAGE ADVANCES IN REMOTE SENSING, ARTIFICIAL INTELLIGENCE, REAL-TIME MODELING AND CLOUD COMPUTING TECHNOLOGIES TO SUPPORT DYNAMIC AND ANALYTIC WILDFIRE RISK MAPPING AND RESPONSE.	817,000.
SAN DIEGO STATE UNIVERSITY FOUNDATION 5250 CAMPANILE DRIVE SAN DIEGO, CA 92182-1931	NONE SO III FI	IN SUPPORT OF THE DEVELOPMENT OF FUNCTIONAL GENOMIC ANALYSES OF UNKNOWN VIRAL GENES AND NEW TECHNOLOGIES TO MEASURE SMALL AMOUNTS OF HEAT ARISING FROM VIRUS-HOST INTERACTIONS THAT WILL PROVIDE NEW INSIGHTS INTO THE ROLES OF VIRUSES IN CORAL AND MARINE SNOW ECOSYSTEMS.	222,500.
SANTA CLARA VALLEY HABITAT AGENCY 535 ALKIRE AVENUE, SUITE 100 MORGAN HILL, CA 95037	NONE GOV	TO SUPPORT THE ACQUISITION AND PERMANENT PROTECTION OF THE EAST COYOTE RIDGE PROPERTY IN SANTA CLARA COUNTY.	600,000.
SAVE THE REDWOODS LEAGUE 111 SUTTER STREET 11TH FLOOR SAN FRANCISCO, CA 94104	NONE PC	FOR PERMANENT PROTECTION OF THE CASCADE RANCH IN SANTA CRUZ COUNTY.	2,250,000.
SCIENCE FRIDAY INITIATIVE INC. 19 W 44TH STREET, SUITE 412 NEW YORK, NY 10036	NONE PC	IN SUPPORT OF EMBEDDING CITIZEN SCIENCE PROJECTS IN RICH MULTIMEDIA AND EDUCATIONAL FORMATS.	350,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SEAS AT RISK VZW RUE D 'EDIMBOURG 26 BRUSSELS BELGIUM BE - 1050	NONE PC	TO PROTECT ARCTIC MARINE ECOSYSTEMS AND THE COMMUNITIES THAT DEPEND ON THEM FROM SPILLS OF HEAVY FUEL OIL.	484,069.
SEMINARIO PERMANENTE DE INVESTIGACION AGRARIA JR. MARIA PARADO DE BELLIDO 150 LIMA PERU	NONE PC	TO SUPPORT INNOVATIVE ANALYSIS AND INFORMED DEBATE OF THE EVIDENCE OF IMPACTS OF GLOBAL CHANGE AND INFRASTRUCTURE ON THE ENVIRONMENT AND SOCIETY IN THE PERUVIAN AMAZON.	90,000.
SMITHSONIAN INSTITUTION 1100 JEFFERSON DRIVE, SUITE 3123, MRC 705 WASHINGTON, DC 20013-7012	NONE PC	IN SUPPORT OF EXPLORING HOW A LAND BARRIER, THE ISTHMUS OF PANAMA, CATALYZED NOVEL DIFFERENTIATION OF SYMBIOTIC ASSOCIATIONS BETWEEN MARINE ANIMALS AND MICROBES OVER THE PAST THREE MILLION YEARS.	214,208.
SMITHSONIAN INSTITUTION 1000 JEFFERSON DRIVE, SW 4TH FLOOR WASHINGTON, DC 20026-3293	NONE PC	IN SUPPORT OF THE DEVELOPMENT AND DISSEMINATION OF ONLINE COMMUNITY RESEARCH GUIDES FOR YOUTH TO HELP LEARN ABOUT BIODIVERSITY AND SUSTAINABILITY AND USE SCIENCE TO INFORM ACTION.	500,000.
SOCIEDAD PERUANA DE DERECHO AMBIENTAL PROLONGACION ARENALES NO. 437 LIMA PERU 27	NONE PC	TO SUPPORT THE PROTECTION OF FRESHWATER ECOSYSTEMS IN THE MARANON BASIN OF PERU.	103,068.
SOCIEDAD PERUANA DE DERECHO AMBIENTAL PROLONGACION ARENALES NO. 437 LIMA PERU 27	NONE PC	TO IMPROVE CONSOLIDATION CONDITIONS FOR SIX PROTECTED AREAS AND INDIGENOUS LANDS IN THE UPPER PURUS MOSAIC (5.8 MILLION HECTARES).	239,169.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SOCIEDAD PERUANA DE DERECHO AMBIENTAL PROLONGACION ARENALES NO. 437 LIMA PERU 27	NONE PC	TO EXPAND THE LORETO REGIONAL CONSERVATION SYSTEM (RCS) IN PERU TO 6.9 MILLION HECTARES BY APPLYING IMPROVED AND INCLUSIVE MANAGEMENT EFFECTIVENESS TOOLS.	800,000.
SOCIEDAD PERUANA DE DERECHO AMBIENTAL PROLONGACION ARENALES NO. 437 LIMA PERU 27	NONE PC	IN SUPPORT OF MORE SUSTAINABLE, TRANSPARENT AND EQUITABLE INFRASTRUCTURE INVESTMENTS IN THE STATE OF LORETO IN THE PERUVIAN AMAZON.	715,137.
SOCIETY OF ENVIRONMENTAL JOURNALISTS 1629 K STREET NW, SUITE 300 WASHINGTON, DC 20006	NONE PC	IN SUPPORT OF OCEAN CONSERVATION STORYTELLING.	147,253.
SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE INC. 909 DAVIS STREET SUITE 500 EVANSTON, IL 60201	NONE PC	IN SUPPORT OF A NATIONAL AWARENESS AND ENGAGEMENT CAMPAIGN FOR DIAGNOSTIC SAFETY AND QUALITY PRIMARILY TARGETING HEALTHCARE SYSTEMS AND CLINICIANS.	1,088,248.
SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE INC. 909 DAVIS STREET SUITE 500 EVANSTON, IL 60201	NONE PC	TO SUPPORT THE DEVELOPMENT OF A SUSTAINABLE FUNDING STRATEGY FOR THE SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE.	335,009.
SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE INC. 909 DAVIS STREET SUITE 500 EVANSTON, IL 60201	NONE PC	TO SUPPORT A SMALL GRANTS PROGRAM ADMINISTERED BY THE SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE TO CATALYZE INNOVATION IN DIAGNOSTIC EXCELLENCE.	1,917,662.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE INC. 909 DAVIS STREET SUITE 500 EVANSTON, IL 60201	NONE PC	TO SUPPORT THE EARLY CAREER DEVELOPMENT OF NINE SCHOLARS CONDUCTING MENTORED RESEARCH IN DIAGNOSTIC EXCELLENCE.	170,808.
SONOMA LAND TRUST 822 FIFTH STREET SANTA ROSA, CA 95404	NONE PC	FOR THE ACQUISITION AND PERMANENT PROTECTION OF THE 654-ACRE MCCORMICK RANCH, AN ECOLOGICALLY-SIGNIFICANT PROPERTY WITHIN THE MARIN COAST-BLUE RIDGE CRITICAL LINKAGE.	2,000,000.
STAND ONE HAIGHT STREET SAN FRANCISCO, CA 94102	NONE PC	TO ENABLE SUSTAINABLE SHIPPING.	400,890.
STAZIONE ZOOLOGICA ANTON DOHRN VILLA COMUNALE NAPOLI ITALY 80121	NONE GOV	IN SUPPORT OF APPLYING NEW APPROACHES TO STUDY THE TRIGGERS AND REGULATION OF SEXUAL REPRODUCTION IN PHOTOSYNTHETIC DIATOMS TO BROADEN UNDERSTANDING OF THE EVOLUTIONARY CONSEQUENCES OF REPRODUCTION IN PHYTOPLANKTON.	138,959.
STIFTELSEN THE STOCKHOLM ENVIRONMENT INSTITUTE LINNEGATAN 87D, 115 23 STOCKHOLM SWEDEN	NONE PC	TO SCALE UP TRASE, THE WORLD'S FIRST OPEN-ACCESS COMMODITY SUPPLY-CHAIN INTELLIGENCE PLATFORM FOR SUSTAINABILITY.	500,000.
STOCKHOLMS UNIVERSITET STOCKHOLM UNIVERSITY, KRAFTRIKET 2B STOCKHOLM SWEDEN SE-106 91	NONE GOV	TO SUPPORT COORDINATION OF THE SEAFOOD BUSINESS FOR OCEAN STEWARDSHIP INITIATIVE (SEABOS) AND ITS TRANSITION TO AN INDEPENDENT, FULLY FUNCTIONING ENTITY.	250,625.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SURFRIDER FOUNDATION PO BOX 6010 SAN CLEMENTE, CA 92674-6010	NONE PC	TO SUPPORT IMPLEMENTATION OF THE NATIONAL OCEAN POLICY AND OCEAN PLANNING ON THE EASTERN COAST OF THE UNITED STATES.	100,000.
SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK ASSOC. 475 RIVERSIDE DRIVE SUITE 530 NEW YORK, NY 10115	NONE PC	TO SUPPORT THE CREATION OF A SCIENTIFIC PANEL FOR THE AMAZON.	398,503.
SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK ASSOC. 475 RIVERSIDE DRIVE SUITE 530 NEW YORK, NY 10115	NONE PC	TO DEVELOP PROJECTIONS FOR BILATERAL TRADE OF AGRICULTURAL AND FORESTRY PRODUCTS BETWEEN CHINA AND MAJOR EXPORTING COUNTRIES AND RECOMMENDATIONS FOR POLICY ACTIONS COMPATIBLE WITH THE PARIS AGREEMENT AND THE SUSTAINABLE DEVELOPMENT GOALS.	250,000.
SYSTEMIQ LTD 69 CARTER LANE LONDON UNITED KINGDOM EC4V 5EQ	NONE NC	TO SUPPORT THE DEVELOPMENT OF THE FOOD AND LAND USE GLOBAL REPORT AND ITS SOCIALIZATION WITH KEY ECONOMIC DECISION MAKERS IN THE PUBLIC AND PRIVATE SECTORS, IN ORDER TO PROTECT AND REGENERATE NATURAL RESOURCES WHILE PROVIDING NUTRITIOUS AND AFFORDABLE FOOD.	350,414.
T. BUCK SUZUKI ENVIRONMENTAL FOUNDATION #100 - 326 12TH STREET NEW WESTMINSTER BC CANADA V3M 4H6	NONE PC	TO ENABLE COMMERCIAL FISHERMEN ENGAGEMENT IN HABITAT PROTECTION AND SUSTAINABLE FISHERIES MANAGEMENT.	150,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 348 VIA PUEBLO MALL, STANFORD UNIVERSITY STANFORD, CA 94305-4090	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. IAN FISHER AIMING TO DISCOVER MATERIALS AND DEVELOP TOOLS TO ELUCIDATE THE ROLE OF HIGHER-ORDER MULTIPOLAR ORDER IN QUANTUM MATERIALS.	305,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 348 VIA PUEBLO MALL, STANFORD UNIVERSITY STANFORD, CA 94305-4090	NONE PC	IN SUPPORT OF RESEARCH TO PRODUCE REFLECTIVE OPTICAL COATINGS WITH LOW THERMAL NOISE, FOR USE IN GRAVITATIONAL WAVE DETECTORS.	350,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 3160 PORTER DRIVE, SUITE 100 PALO ALTO, CA 94304	NONE PC	TO BUILD A MARINE ELECTRONIC TAG CAPABLE OF RAPIDLY TRANSMITTING IN NEAR REAL TIME THE POSITION OF MARINE ANIMALS AND THEIR ASSOCIATED ENVIRONMENTAL DATA TO ADDRESS THE CHALLENGING PROBLEM OF ASSESSING ANIMAL POPULATION ABUNDANCE AND BEHAVIOR IN THE OCEANS.	956,651.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. VARIAN PHYSICS BUILDING, 382 VIA PUEBLO MALL STANFORD, CA 94305-4060	NONE PC	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	250,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 348 VIA PUEBLO MALL, STANFORD UNIVERSITY STANFORD, CA 94305-4090	NONE PC	IN SUPPORT OF LEADING-EDGE RESEARCH TO DISCOVER MATERIALS WITH NEW FUNCTIONALITY BY EXPLOITING ATOMICALLY-THIN 2D-MATERIALS COMBINED AS HETEROSTRUCTURES AND LAYERED MATERIALS.	405,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. VARIAN PHYSICS BUILDING, 382 VIA PUEBLO MALL STANFORD, CA 94305-4060	NONE PC	IN SUPPORT OF INNOVATIVE EXPERIMENTS THAT SEARCH FOR LOW-MASS PARTICLES THAT COULD BE THE COSMOLOGICAL DARK MATTER.	449,979.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV.	NONE	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL SUPPORT THE FUNDAMENTAL DEVELOPMENT OF DEEPDIVE AND ITS ASSISTANCE IN THE NATURAL SCIENCES, INCLUDING DEVELOPMENT OF THE CORE ENGINE AND ITS TOOLS, WHILE ALSO ENABLING RESEARCH COLLABORATIONS IN PALEOBIOLOGY, GEOSCIENCES, AND	300,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
353 SERRA MALL, GATES 305 STANFORD, CA 94305	PC	GENOMICS.	
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 485 BROADWAY, THIRD FLOOR REDWOOD CITY, CA 94063	NONE PC	TO SUPPORT THE NATURAL CAPITAL PROJECT'S EFFORTS TO ADVANCE NATURAL CAPITAL-BASED PLANNING FOR SUSTAINABLE DEVELOPMENT.	2,000,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 300 PASTEUR DRIVE STANFORD, CA 94305	NONE PC	TO DEVELOP NEW ASSAYS AND TOOLS TO SCAN DIVERSE ECOLOGICAL NICHES ON EARTH TO IDENTIFY HIDDEN MICROBIAL LIFE.	1,059,685.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 3172 PORTER DRIVE PALO ALTO, CA 94304-1212	NONE PC	TO SUPPORT A CONFERENCE CO-HOSTED BY STANFORD UNIVERSITY AND NATURE ON THE USE OF ARTIFICIAL INTELLIGENCE TO IMPROVE HEALTHCARE VALUE AND QUALITY.	28,691.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. DEPARTMENT OF GENETICS, MAIL STOP-5120 STANFORD, CA 94305	NONE PC	IN SUPPORT OF RESEARCH TO GAIN A DEEPER UNDERSTANDING OF ALLOSTERY, THE REGULATION OF ACTIVE SITES OR LIGAND BINDING SITES WITHIN A PROTEIN BY DISTANT RESIDUES, USING HIGH-THROUGHPUT MICROFLUIDICS AND MOLECULAR DYNAMIC SIMULATIONS.	345,830.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 348 VIA PUEBLO MALL STANFORD, CA 94305-4090	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. HAROLD HWANG, UTILIZING SOFT CHEMISTRY APPROACHES FOR THIN-FILM SYNTHESIS OF OXIDE AND HYBRID QUANTUM MATERIALS.	305,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 496 LOMITA MALL STANFORD, CA 94305	NONE PC	IN SUPPORT OF THE DEVELOPMENT OF AN OPTICAL TECHNIQUE TO EFFICIENTLY SEPARATE CHIRAL MOLECULES.	225,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 450 SERRA MALL, BUILDING 160, ROOM 231 STANFORD, CA 94305	NONE PC	IN SUPPORT OF IN-DEPTH RESEARCH OPPORTUNITIES FOR LOCAL HIGH SCHOOL SCIENCE TEACHERS.	67,500.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 3172 PORTER DRIVE PALO ALTO, CA 94304-1212	NONE PC	TO SUPPORT THE DEVELOPMENT AND PILOT TESTING OF PRESENCE 5, A SET OF EXPERT-RECOMMENDED, EVIDENCE-BASED PRACTICES FOR PROMOTING CLINICIAN PRESENCE.	128,051.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. VARIAN PHYSICS BUILDING, 382 VIA PUEBLO MALL STANFORD, CA 94305-4060	NONE PC	TO DEVELOP A NOVEL GRAVITATIONAL WAVE DETECTOR BASED ON ATOMIC SENSORS.	2,288,043.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 348 VIA PUEBLO MALL STANFORD, CA 94305-4090	NONE PC	IN SUPPORT OF RESEARCH TARGETING THE SYNTHESIS AND DISCOVERY OF NEW EMERGENT PHENOMENA ARISING AT THE INTERFACE BETWEEN QUANTUM MATERIALS.	170,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 348 VIA PUEBLO MALL STANFORD, CA 94305-4090	NONE PC	TO SUPPORT THE DEVELOPMENT OF A NOVEL REVOLUTIONARY TECHNICAL APPROACH TO PARTICLE ACCELERATOR DESIGN THAT HOLDS THE PROMISE OF EXPANDING EXPLORATION OF THE PHYSICS ENERGY FRONTIER, ENABLING NEW TABLE TOP PHYSICS, OPENING UP ATTOSECOND SCIENCE AND DAMAGE-FREE TIME-RESOLVED, MOLECULAR DYNAMICS.	2,603,729.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 473 VIA ORTEGA, ROOM 193 STANFORD, CA 94305	NONE PC	TO ENCOURAGE NEW AND STRENGTHEN EXISTING, MEANINGFUL COMMITMENTS AND ACTION FOR THE COORDINATED IMPLEMENTATION OF THE PORT STATE MEASURES AGREEMENT BY IMPORTANT PORT STATES OF THE PACIFIC BASIN.	297,700.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 348 VIA PUEBLO MALL STANFORD, CA 94305-4090	NONE PC	TO SUPPORT CONTINUED DEVELOPMENT OF A REVOLUTIONARY ACCELERATOR DESIGN TO EXPAND THE EXPLORATION OF PARTICLE PHYSICS, ENABLE NEW TABLE-TOP PHYSICS, OPEN UP ATTOSECOND SCIENCE AND ENABLE DAMAGE-FREE TIME-RESOLVED STUDY OF MOLECULAR DYNAMICS.	3,396,271.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. VARIAN PHYSICS BUILDING, 382 VIA PUEBLO MALL STANFORD, CA 94305-4060	NONE PC	IN SUPPORT OF THEORETICAL PHYSICS WORK TO IDENTIFY SIGNATURES OF NEW FUNDAMENTAL PHYSICS IN COST-EFFECTIVE PRECISION EXPERIMENTS.	474,185.
THE BOARD OF TRUSTEES OF THE UNIV. OF ILLINOIS 1110 WEST GREEN STREET URBANA, IL 61801-3080	NONE GOV	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	200,000.
THE BOARD OF TRUSTEES OF THE UNIV. OF ILLINOIS 1205 W CLARK STREET URBANA, IL 61801	NONE GOV	IN SUPPORT OF THE CONTINUED DEVELOPMENT OF THE YT PROJECT, AN OPEN-SOURCE, PERMISSIVELY-LICENSED PYTHON PACKAGE FOR ANALYZING AND VISUALIZING VOLUMETRIC DATA.	350,000.
THE BOARD OF TRUSTEES OF THE UNIV. OF ILLINOIS 1901 S FIRST STREET, SUITE A CHAMPAIGN, IL 61820	NONE GOV	IN SUPPORT OF LEADING-EDGE RESEARCH TO DEVELOP AN ELECTRON SCATTERING INSTRUMENT TO STUDY THE LOW-ENERGY BOSONIC EXCITATIONS THOUGHT TO PLAY AN IMPORTANT ROLE IN THE EMERGENCE OF NOVEL PHENOMENA IN QUANTUM MATERIALS.	213,253.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE CHANCELLOR, MASTERS AND SCHOLARS OF CAMBRIDGE 16 MILL LANE CAMBRIDGE UNITED KINGDOM CB2 1SB	NONE PC	IN SUPPORT OF COMBINING EXPERIMENTAL AND THEORETICAL RESEARCH AIMED AT UNDERSTANDING SPATIAL AND TEMPORAL ASPECTS OF MARINE ECOSYSTEM DYNAMICS, FROM THE SINGLE CELL TO MARINE MICROBIAL POPULATIONS.	511,875.
THE CURATORS OF THE UNIVERSITY OF MISSOURI 115 BUSINESS LOOP 70W ROOM 501 COLUMBIA, MO 65211	NONE GOV	IN SUPPORT OF BRINGING EVIDENCE TO POLICYMAKING THROUGH THE MISSOURI SCIENCE AND TECHNOLOGY POLICY FELLOWSHIP PROGRAM.	339,984.
THE EXPLORATORIUM PIER 17, SUITE 100 SAN FRANCISCO, CA 94111	NONE PC	IN SUPPORT OF ADVANCES IN KNOWLEDGE SYNTHESIS AND RESEARCH ON VISUALIZATION FOR SCIENCE LEARNING AND ENGAGEMENT.	99,975.
THE EXPLORATORIUM PIER 17, SUITE 100 SAN FRANCISCO, CA 94111	NONE PC	TO SUPPORT THE DESIGN AND DEVELOPMENT OF AN EXHIBITION ON SCIENCE, TECHNOLOGY AND ENGINEERING TINKERING.	700,000.
THE EXPLORATORIUM PIER 17, SUITE 100 SAN FRANCISCO, CA 94111	NONE PC	IN SUPPORT OF UNDER PIER RENOVATION.	850,000.
THE GLOBAL CENTER ON ADAPTATION FOUNDATION WILHELMINAKADE 149C ROTTERDAM NETHERLANDS 3072 AP	NONE PC	TO SUPPORT THE GLOBAL COMMISSION ON ADAPTATION'S WATER ACTION TRACK.	1,550,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE OHIO STATE UNIVERSITY 1960 KENNY ROAD COLUMBUS, OH 43210	NONE GOV	IN SUPPORT OF DEVELOPING NOVEL WAYS OF 'SEEING' AND UNDERSTANDING VIRUSES IN THE LABORATORY AND NATURE.	155,300.
THE PENNSYLVANIA STATE UNIVERSITY 110 TECHNOLOGY CENTER BUILDING UNIVERSITY PARK, PA 16802	NONE GOV	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. CUI-ZU CHANG, IMPROVING SYNTHESIS METHODS FOR HIGH-TEMPERATURE QUANTUM ANOMALOUS HALL (QAH) INSULATORS AND QAH/SUPERCONDUCTOR HYBRID STRUCTURES.	730,049.
THE PENNSYLVANIA STATE UNIVERSITY 110 TECHNOLOGY CENTER BUILDING UNIVERSITY PARK, PA 16802	NONE GOV	TO SUPPORT THE WORK OF PATIENT AND FAMILY ENGAGEMENT EARLY-CAREER INVESTIGATOR, ANDREA YEVCHAK SILLNER, IN HER PROJECT TO DEVELOP ASSESSMENT ITEMS THAT ALLOW CLINICAL PROVIDERS TO BETTER ASSESS AND THEN INTEGRATE PATIENT PREFERENCES FOR TECHNOLOGY COMMUNICATION STRATEGIES INTO PLANS OF CARE.	168,752.
THE SENSE OF SILENCE FOUNDATION AIGUA 186, 08800 VILANOVA I LA GELT BARCELONA SPAIN	NONE PC	TO SUPPORT THE DEVELOPMENT AND OPTIMIZATION OF TECHNOLOGY AND A BIODIVERSITY INDEX TO MONITOR PROTECTED AREAS AND INDIGENOUS LANDS ACROSS THE AMAZON.	283,000.
THE TECH MUSEUM OF INNOVATION 201 SOUTH MARKET STREET SAN JOSE, CA 95113	NONE PC	IN SUPPORT OF DEMOLITION, DESIGN AND BUILD-OUT OF AN 8,000 SQUARE FOOT EXHIBITION GALLERY SPACE THAT ADDRESSES TECHNOLOGY FOR A SUSTAINABLE PLANET.	2,200,000.
THE TEXAS A&M UNIVERSITY SYSTEM 580 ROSS STREET COLLEGE STATION, TX 77843	NONE GOV	IN SUPPORT OF THE INVENTION OF A NEW CLASS OF SEMICONDUCTOR NANOCRYSTALS TO RECTIFY PHOTON TRANSPORT.	225,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THIRD SECTOR NEW ENGLAND, INC. THE NONPROFIT CENTER, 89 SOUTH STREET, SUITE 202 BOSTON, MA 02111	NONE PC	TO PROVIDE SUPPORT FOR OCEAN POLICY ANALYSIS AND INFORMATION.	281,072.
TIDES CANADA FOUNDATION 400-163 HASTINGS STREET VANCOUVER BC CANADA V6B 1H5	NONE PC	IN SUPPORT OF THE MARINE PLAN PARTNERSHIP'S INTEGRATION WITH COMPLEMENTARY INITIATIVES.	278,418.
TIDES CANADA FOUNDATION 400-163 HASTINGS STREET VANCOUVER BC CANADA V6B 1H5	NONE PC	TO SUPPORT THE RESILIENCE OF INUIT COMMUNITIES IN NUNAVUT TO ENSURE THE DURABILITY OF HEALTHY OCEAN ECOSYSTEM SOLUTIONS.	737,123.
TIDES CANADA FOUNDATION 400-163 HASTINGS STREET VANCOUVER BC CANADA V6B 1H5	NONE PC	TO SUPPORT SMALL GRANTS IN BRITISH COLUMBIA.	250,005.
TRANSPARENCIA POR COLOMBIA CARRERA 45A NO. 93 - 61 BOGOTA COLOMBIA	NONE PC	TO SUPPORT A TRAINING PROGRAM TO ADVANCE CIVIL SOCIETY'S UNDERSTANDING OF MAPAINVERSIONES-BASED PLATFORMS.	167,500.
TRUST FOR CONSERVATION INNOVATION 405 14TH STREET, SUITE 164 OAKLAND, CA 94612-2705	NONE PC	IN SUPPORT OF THE DEVELOPMENT, FIELD TESTING, AND DISSEMINATION OF SENSOR-BASED KITS FOR EDUCATION, CONSERVATION, AND SCIENTIFIC PURPOSES.	685,425.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TRUST FOR PUBLIC LAND 101 MONTGOMERY STREET, SUITE 900 SAN FRANCISCO, CA 94104	NONE PC	TO ENABLE COMPREHENSIVE ECOSYSTEM RESTORATION OF THE SAN GERONIMO CREEK AND LARSEN CREEK CORRIDORS AND FLOODPLAINS IN MARIN COUNTY.	960,000.
TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NY 61 ROUTE 9W PALISADES, NY 10964-1000	NONE PC	IN SUPPORT OF AN INTERNATIONAL RESEARCH EFFORT TO MONITOR VOLCANOES IN REAL TIME.	823,814.
TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NY 61 ROUTE 9W PALISADES, NY 10964-1000	NONE PC	IN SUPPORT OF PANGEO: A COLLECTION OF OPEN SOURCE SOFTWARE TOOLS TO ADVANCE KNOWLEDGE IN THE CLIMATE SCIENCES.	806,072.
TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NY 538 WEST 120TH STREET, 704 PUPIN HALL MC 5255 NEW YORK, NY 10027	NONE PC	IN SUPPORT OF LEADING-EDGE RESEARCH THAT USES LIGHT TO MODIFY AND ULTIMATELY CONTROL THE PROPERTIES OF STRONGLY CORRELATED ELECTRON MATERIALS.	571,472.
TRUSTEES OF DARTMOUTH COLLEGE 11 ROPE FERRY ROAD, #6210 HANOVER, NH 03755-1404	NONE PC	TO SUPPORT THE DEVELOPMENT OF A PERSON-CENTERED, REGISTRY-BASED HEALTH CARE DELIVERY PROCESS - AND A RELATED INFORMATION TECHNOLOGY PLATFORM - THAT WILL SYSTEMATICALLY GATHER LONGITUDINAL DATA ON HEALTH STATUS AND PRESCRIBED TREATMENTS AND APPLY EVIDENCE IN REAL-TIME TO IMPROVE OUTCOMES AND CARE EXPERIENCES FOR PEOPLE WITH SERIOUS ILLNESS.	651,375.
TRUSTEES OF INDIANA UNIVERSITY 1025 E 7TH STREET #111 BLOOMINGTON, IN 47405	NONE GOV	IN SUPPORT OF A POST-DOCTORAL SCHOLAR TO FOCUS ON IMPROVEMENT IN RIGOR, REPRODUCIBILITY AND TRANSPARENCY.	177,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TRUSTEES OF PRINCETON UNIVERSITY 701 CARNEGIE CENTER, SUITE 442 PRINCETON, NJ 08540	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. ROBERT CAVA TO EXPLORE THE MOLECULES IN METALS MODEL FOR MAGNETIC AND ELECTRONIC MATERIALS, NEW SUPERCONDUCTING HIGH ENTROPY ALLOYS, AND THE HYDROTHERMAL METHOD FOR IRIDATE GROWTH.	570,000.
TRUSTEES OF PRINCETON UNIVERSITY 701 CARNEGIE CENTER, SUITE 442 PRINCETON, NJ 08540	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. LESLIE SCHOOP TO EXPLORE THE SYNTHESIS OF LAYERED MAGNETIC MATERIALS, CORRELATED TOPOLOGICAL MATERIALS, AND NOVEL TWO-DIMENSIONAL MATERIALS.	570,000.
TRUSTEES OF PRINCETON UNIVERSITY ENGINEERING QUADRANGLE, OLDEN STREET PRINCETON, NJ 08544	NONE PC	IN SUPPORT OF RESEARCH TARGETING SYNTHESIS AND CHARACTERIZATION OF NEW MATERIALS EXHIBITING NOVEL ELECTRONIC AND/OR MAGNETIC PROPERTIES.	380,000.
TRUSTEES OF PRINCETON UNIVERSITY JADWIN HALL, WASHINGTON ROAD PRINCETON, NJ 08540	NONE PC	IN SUPPORT OF THEORETICAL INVESTIGATIONS OF EMERGENT PHENOMENA IN QUANTUM MATERIALS.	250,000.
TRUSTEES OF PRINCETON UNIVERSITY 701 CARNEGIE CENTER, SUITE 435, PO BOX 5292 PRINCETON, NJ 08544	NONE PC	IN SUPPORT OF THE CONTINUED DEVELOPMENT OF ASPIRE (ALGORITHMS FOR SINGLE PARTICLE RECONSTRUCTION), AN EMERGING SOFTWARE PACKAGE FOR THREE-DIMENSIONAL STRUCTURE DETERMINATION OF MACROMOLECULES BY CRYO-ELECTRON MICROSCOPY.	350,000.
TRUSTEES OF PRINCETON UNIVERSITY 701 CARNEGIE CENTER, SUITE 442 PRINCETON, NJ 08540	NONE PC	TO DEVELOP NOVEL RESEARCH METHODS AND PROTOCOLS TO DETERMINE WHETHER WIRE-LIKE QUANTUM CHARGE TRANSPORT IN DNA IS DEPLOYED BY NATURE FOR EVERYDAY CELLULAR FUNCTIONS.	605,656.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TRUSTEES OF PRINCETON UNIVERSITY 119 LEWIS THOMAS LABORATORY WASHINGTON ROAD PRINCETON, NJ 08544	NONE PC	IN SUPPORT OF USING GENOMIC COMPARISONS, CHEMISTRY ANALYSES, AND IMAGING TECHNIQUES TO UNDERSTAND THE MECHANISMS OF HOW SEA SLUGS ACQUIRE AND USE NUTRIENTS AND PROTECTION IN SYMBIOTIC RELATIONSHIPS.	300,000.
TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA 10-122 SCTR, 3400 CIVIC CENTER BOULEVARD PHILADELPHIA, PA 19104-5158	NONE PC	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL SUPPORT THE DEVELOPMENT OF NEW APPROACHES TO SIMPLIFY AND INTERPRET DEEP-LEARNING-DERIVED MODELS OF BIOLOGICAL DATA, AND TO DEVELOP AND RELEASE WEBSERVERS THAT PUT THESE METHODS INTO THE HANDS OF BIOLOGISTS.	350,000.
TRUSTEES OF TUFTS COLLEGE 150 HARRISON AVENUE BOSTON, MA 02111	NONE PC	IN SUPPORT OF VALUING LOCAL BENEFITS PROVIDED BY NATIVE VEGETATION TO THE AGRICULTURAL SECTOR IN BRAZIL TO INFORM PRIVATE SECTOR SOURCING AND INVESTMENT DECISIONS.	400,000.
UNIVERSIDAD DE INGENIERIA Y TECNOLOGIA JR. MEDRANO SILVA 165, BARRANCO LIMA PERU	NONE PC	TO CREATE A BASELINE OF RIVER DYNAMICS IN THE MARANON BASIN OF PERU AND TO SUPPORT THE INCLUSION OF SUCH INFORMATION IN INFRASTRUCTURE PLANNING IN THE PERUVIAN AMAZON TO MINIMIZE ENVIRONMENTAL AND SOCIAL IMPACTS.	957,736.
UNIVERSITY COLLEGE LONDON GOWER STREET LONDON UNITED KINGDOM	NONE PC	IN SUPPORT OF RESEARCH THAT UNITES BIOPHYSICS, QUANTUM OPTICS THEORY AND NANOPHOTONIC TECHNOLOGY TO OBTAIN SIGNATURES OF QUANTUM MECHANICAL EFFECTS IN SINGLE BIOMOLECULES.	666,096.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CHICAGO 5841 SOUTH MARYLAND AVENUE CHICAGO, IL 60637	NONE PC	IN SUPPORT OF RESEARCH TO DEVELOP A NOVEL MULTIVIEW COMPUTATIONAL IMAGING SYSTEM COMPRISED OF ALGORITHMS APPLIED TO A LINE-SCANNING, SUPERRESOLUTION, ABERRATION-CORRECTED MICROSCOPE TO ANSWER FUNDAMENTAL QUESTIONS IN ANIMAL DEVELOPMENT.	552,776.
UNIVERSITY OF CHICAGO 5807 S WOODLAWN AVENUE CHICAGO, IL 60637	NONE PC	TO SUPPORT THE DEVELOPMENT OF SHARED DATA RESOURCES AND MACHINE LEARNING ALGORITHMS AT CONTRA COSTA COUNTY HEALTH SERVICES TO IMPROVE CLINICAL DIAGNOSIS.	500,000.
UNIVERSITY OF CHICAGO 920 E 58TH STREET, CLSC CHICAGO, IL 60637	NONE PC	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL DEVELOP A FRAMEWORK FOR IMPROVED STATISTICAL METHODS COMPARISONS, AND LAY THE GROUNDWORK FOR UNDERSTANDING THE MOLECULAR MECHANISMS UNDERLYING GENE REGULATION.	350,000.
UNIVERSITY OF DELAWARE 102 BROWN LABORATORY NEWARK, DE 19716	NONE GOV	IN SUPPORT OF THE COLLABORATIVE PROJECT 'FINDING MITOCHONDRIAL MEMORY' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF DELAWARE 540 SOUTH COLLEGE AVENUE NEWARK, DE 19713	NONE GOV	TO SUPPORT THE WORK OF PATIENT AND FAMILY ENGAGEMENT EARLY-CAREER INVESTIGATOR, MATTHEW COHEN, IN HIS PROJECT TO IMPROVE THE CLINICAL UTILITY OF CONTENT-TAILORED PATIENT-REPORTED OUTCOME MEASURES FOR INDIVIDUALS WHO HAVE IMPAIRED COMMUNICATION ABILITIES.	164,315.
UNIVERSITY OF EXETER THE UNIVERSITY OF EXETER, MAIL ROOM EXETER DEVON UNITED KINGDOM EX4 4SB	NONE PC	IN SUPPORT OF USING GENETIC MODEL SYSTEMS AND ADVANCED PROTEIN ANALYSIS TOOLS TO CHARACTERIZE HOW MARINE MICROBES EXTRACT NUTRIENTS FROM SEAWATER.	222,535.
UNIVERSITY OF FLORIDA BOARD OF TRUSTEES 219 GRINTER HALL, PO BOX 115500 GAINESVILLE, FL 32611	NONE GOV	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL ACHIEVE A DEEPER UNDERSTANDING OF HOW TO FORECAST CHANGES IN ECOLOGICAL SYSTEMS AND HELP FACILITATE AND ESTABLISH DATA-INTENSIVE RESEARCH IN ECOLOGY.	350,000.
UNIVERSITY OF FLORIDA BOARD OF TRUSTEES 319 GRINTER HALL, PO BOX 115531 GAINESVILLE, FL 32611	NONE GOV	TO CREATE A COMMUNITY OF PRACTICE AMONG NETWORKS OF STAKEHOLDERS ACROSS THE AMAZON TO IMPROVE TRANSPARENCY AND ACCOUNTABILITY OF INFRASTRUCTURE PLANNING AND THE ENVIRONMENTAL GOVERNANCE OF PROTECTED AREAS MOSAICS.	826,750.
UNIVERSITY OF GUELPH 579 GORDON STREET GUELPH ON CANADA N1G 2W1	NONE PC	IN SUPPORT OF THE ACQUISITION OF A SEQUEL II SYSTEM, WHICH WILL BENEFIT ALL MEMBERS OF THE IBOL CONSORTIUM BY PROVIDING THE ADVANTAGES OF SMRT SEQUENCING AND MAKING IT MORE AFFORDABLE FOR SCIENTISTS TO DRIVE DISCOVERY WITH COMPREHENSIVE VIEWS OF GENOMES AND TRANSCRIPTOMES.	490,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF HAWAII FOUNDATION 1314 S KING STREET, SUITE #B HONOLULU, HI 96822-2388	NONE PC	TO SUPPORT THE ENGAGEMENT OF YOUTH AND EDUCATORS WITH THE SCIENTIFIC DISCOVERY PROCESS TAKING PLACE AT OBSERVATORIES ON MAUNAKEA THROUGH A COLLABORATIVE NAMING PROGRAM, WITH ACCOMPANYING CURRICULUM, EXHIBITS AND PLANETARIUM PROGRAMMING.	500,000.
UNIVERSITY OF HAWAII FOUNDATION 1314 S KING STREET, SUITE #B HONOLULU, HI 96822-2388	NONE PC	IN SUPPORT OF RESEARCH TO ADVANCE KNOWLEDGE REGARDING THE PATHWAYS, RATES, AND CONTROLS OF THE MICROBIAL PHOSPHORUS CYCLE AND ITS INEXTRICABLE LINKAGES WITH THE CARBON AND NITROGEN CYCLES.	210,200.
UNIVERSITY OF HAWAII FOUNDATION 1314 S KING STREET, SUITE #B HONOLULU, HI 96822-2388	NONE PC	IN SUPPORT OF RESEARCH TO ADVANCE KNOWLEDGE OF MICROBIAL DYNAMICS IN TIME AND SPACE USING NEWLY EMERGING ROBOTIC SAMPLING TECHNOLOGIES, AND OF NUTRIENT TRANSFORMATIONS ON PARTICULATE ORGANIC MATTER USING GENOMICS AND CULTIVATION TECHNIQUES.	213,500.
UNIVERSITY OF LINCOLN UNIVERSITY OF LINCOLN BRAYFORD POOL LINCOLN UNITED KINGDOM LN6 7TS	NONE PC	IN SUPPORT OF USING LABORATORY AND FIELD EXPERIMENTS, COMPUTER MODELING, ENGINEERING, AND UNDERWATER IMAGING TO ASSESS HOW FINE-SCALE VISCOSITY AFFECTS THE ABILITY OF MARINE MICROBES TO FIND AND ACQUIRE FOOD.	214,442.
UNIVERSITY OF NORTH CAROLINA 601 S COLLEGE ROAD WILMINGTON, NC 28403	NONE GOV	IN SUPPORT OF THE LAUNCHING AND ORBITING OF INEXPENSIVE NANOSATELLITES, CALLED CUBESATS, THAT PROVIDE SUSTAINED INFORMATION ABOUT SURFACE OCEAN PROCESSES WITH HIGH SPATIAL AND TEMPORAL RESOLUTION.	800,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF OREGON 5219 UNIVERSITY OF OREGON EUGENE, OR 97401-5219	NONE GOV	TO SUPPORT THE STUDY OF PROPULSION IN MARINE ANIMALS THAT USE MULTIPLE FLUIDIC JETS TO MOVE.	558,875.
UNIVERSITY OF RHODE ISLAND 70 LOWER COLLEGE ROAD KINGSTON, RI 02881	NONE GOV	IN SUPPORT OF COMPLETING A NEW TAXONOMIC FRAMEWORK FOR CLASSIFYING THE TREE OF LIFE FOR PROTISTS AND ENSURING PROJECT DURABILITY.	439,212.
UNIVERSITY OF SOUTHERN CALIFORNIA 3616 TROUSDALE PARKWAY, AHF 107 LOS ANGELES, CA 90089-0371	NONE PC	IN SUPPORT OF USING LABORATORY EXPERIMENTS AND COMPUTER MODELS TO DEFINE THE EVOLUTIONARY RULES THAT GOVERN WHICH COMBINATIONS OF FORM AND FUNCTION ARE POSSIBLE FOR ONE TYPE OF MARINE DIATOM.	323,653.
UNIVERSITY OF SOUTHERN CALIFORNIA 3720 S FLOWER STREET LOS ANGELES, CA 90089-0706	NONE PC	IN SUPPORT OF RESEARCH TO INVESTIGATE HOW NUTRIENT INPUTS, PREDATORS, AND VIRAL INFECTION SIMULTANEOUSLY WORK TO CONTROL MICROBIAL COMMUNITIES AND THEIR ACTIVITIES.	209,300.
UNIVERSITY OF SOUTHERN CALIFORNIA 635 DOWNEY WAY, VDP SUITE 312 LOS ANGELES, CA 90089-3333	NONE PC	TO SUPPORT THE SCHAEFFER CENTER TO IDENTIFY CRITICAL ECONOMIC RESEARCH TO ADVANCE ACCESS AND STANDARDIZATION OF PALLIATIVE CARE.	480,630.
UNIVERSITY OF TENNESSEE 1508 MIDDLE DRIVE KNOXVILLE, TN 37996	NONE GOV	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. DAVID MANDRUS ON QUANTUM SPIN LIQUID MATERIALS, THE SPINTRONIC FUNCTIONALITIES OF MAGNETIC WEYL SEMIMETALS, AND TUNING MAGNETIC STATES OF MATERIALS WITH ELECTRICAL CURRENTS.	570,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF TEXAS SYSTEM 5323 HARRY HINES BOULEVARD DALLAS, TX 75390	NONE GOV	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL BE USED TO DEVELOP AND EXPERIMENTALLY TEST A NEW QUANTITATIVE DESCRIPTION OF BACTERIAL GENOMES DERIVED FROM EVOLUTIONARY STATISTICS.	350,000.
UNIVERSITY OF TEXAS SYSTEM 100 E 24TH STREET AUSTIN, TX 78712	NONE GOV	IN SUPPORT OF RESEARCH AND DEVELOPMENT TO ADVANCE MASS SPECTROMETER TECHNOLOGY FOR RAPID DIAGNOSIS OF CANCER TISSUES.	225,000.
UNIVERSITY OF UTAH 75 SOUTH 2000 EAST SALT LAKE CITY, UT 84112	NONE GOV	TO SUPPORT THE DEVELOPMENT OF A CLINICAL QUALITY MEASURE TO IMPROVE DIAGNOSIS OF INFECTIONS.	492,860.
UNIVERSITY OF UTAH 50 S CENTRAL CAMPUS DRIVE ROOM 3190 SALT LAKE CITY, UT 84112	NONE GOV	IN SUPPORT OF DEMONSTRATING THE HIGH LEVEL OF SCIENTIFIC IMPACT THAT DATA SCIENTISTS DELIVER THROUGH THEIR FOCUS ON INTERDISCIPLINARY DATA-DRIVEN RESEARCH. FUNDS FROM THIS AWARD WILL IMPROVE THE UNDERSTANDING OF INTERMEDIATE-SCALE STRUCTURE IN SCIENTIFIC NETWORK DATA AND ENABLE THE DEVELOPMENT OF SCALABLE, STRUCTURE-BASED GRAPH ALGORITHMS.	1,073,227.
UNIVERSITY OF UTAH BUILDING 512 2ND FLOOR 75 SOUTH 2000 EAST SALT LAKE CITY, UT 84112	NONE GOV	IN SUPPORT OF INNOVATIVE LABORATORY CULTURE METHODS, BIOCHEMISTRY EXPERIMENTS, AND ANALYTICAL CHEMISTRY TECHNIQUES TO IDENTIFY THE MOLECULAR MECHANISMS UNDERLYING COMMUNICATION OF AQUATIC MICROBES IN ANTAGONISTIC AND SYMBIOTIC RELATIONSHIPS.	306,844.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVENUE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	IN SUPPORT OF RESEARCH TO IDENTIFY KEY INTERACTIONS WITHIN MICROBIAL COMMUNITIES THAT INFLUENCE THE DISTRIBUTION AND ABUNDANCE OF DIATOMS WITH IMPACT ON BIOGEOCHEMICAL CYCLES.	212,600.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVENUE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	IN SUPPORT OF OBTAINING AN IMPROVED UNDERSTANDING OF MICROBE-PARTICLE-CHEMICAL INTERACTIONS IN THE DARK OCEAN AND THEIR IMPACT ON BIOGEOCHEMICAL CYCLES BASED ON NOVEL MODELS THAT CROSS THE OCEAN'S SPATIAL AND TEMPORAL SCALES.	112,300.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVE NE BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	TO SUPPORT THE DEVELOPMENT OF A CLINICAL QUALITY MEASURE TO IMPROVE DIAGNOSIS OF LUNG CANCER.	500,554.
UNIVERSITY OF WASHINGTON 4333 BROOKLYN AVENUE NE, BOX 359472 SEATTLE, WA 98195-9472	NONE GOV	IN SUPPORT OF DEVELOPING A VIRUS-BACTERIUM-ALGA CULTURE SYSTEM AND ADVANCING METHODS TO INVESTIGATE HOW VIRUS INFECTION AND STRESS IMPACT GENE FLOW AND MICROBIAL EVOLUTION IN COLD, HIGHLY SALINE ENVIRONMENTS.	287,226.
UNIVERSITY SYSTEM OF MARYLAND 1 PARK PLACE, SUITE 300 ANNAPOLIS, MD 21401	NONE GOV	TO SUPPORT A RIGOROUS SCIENTIFIC ASSESSMENT OF THE SOCIAL-ECOLOGICAL IMPACTS OF GLOBAL OCEAN PLANNING EFFORTS TO DATE.	253,899.
UNIVERSITY SYSTEM OF MARYLAND 1117 JOHN S. TOLL BUILDING, #082 COLLEGE PARK, MD 20742	NONE GOV	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. JOHNPIERRE PAGLIONE AIMING TO IMPROVE THE PROTOCOLS AND TECHNIQUES FOR SYNTHESIZING QUANTUM MATERIALS AND ACCELERATE MATERIALS DISCOVERY VIA MACHINE LEARNING TECHNIQUES.	582,278.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY SYSTEM OF MARYLAND 2181 SAMUEL J. LEFRAK HALL COLLEGE PARK, MD 20742	NONE GOV	IN SUPPORT OF OPERATIONALIZING ANNUAL HIGH-RESOLUTION CROP MONITORING ACROSS SOUTH AMERICA USING AUTOMATIC CLASSIFICATION.	450,000.
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIV. 1880 PRATT DRIVE SUITES 2006 BLACKSBURG, VA 24060-3580	NONE GOV	IN SUPPORT OF DEVELOPING A NEW METHOD THAT USES ULTRASOUND TECHNOLOGY TO EXTRACT DNA FROM WOOD TISSUE.	598,129.
WATERKEEPER ALLIANCE INC. 180 MAIDEN LANE, SUITE 603 NEW YORK, NY 10038	NONE PC	TO SUPPORT THE PROTECTION OF FRESHWATER ECOSYSTEMS IN THE MARANON BASIN OF PERU.	115,814.
WEST COAST ENVIRONMENTAL LAW RESEARCH FOUNDATION 200-2006 WEST 10TH AVENUE VANCOUVER BC CANADA V6J 2B3	NONE PC	FOR TECHNICAL AND LEGAL TOOLS THAT SUPPORT HABITAT PROTECTION.	550,000.
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH 455 MAIN STREET CAMBRIDGE, MA 02142	NONE PC	IN SUPPORT OF DEVELOPING NOVEL FLUORESCENCE PROBES FOR USE IN DIVERSE BIOLOGICAL IMAGING APPLICATIONS.	258,333.
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH 455 MAIN STREET CAMBRIDGE, MA 02142	NONE PC	IN SUPPORT OF THE COLLABORATIVE PROJECT 'A PLANT CELL-BASED PLATFORM TO TARGET HUMAN PROTEOSTASIS DISEASES' AS PROPOSED AT THE 2018 SCIALOG: CHEMICAL MACHINERY OF THE CELL CONFERENCE, WHERE SEVEN TEAM RESEARCH PROPOSALS WERE SELECTED THROUGH PEER-REVIEW FROM TWENTY-FOUR TEAM PROPOSALS THAT FOCUSED ON CONVERGENCE SCIENCE AT THE INTERSECTION OF CHEMISTRY AND BIOLOGY TO ADDRESS THE NEED FOR A MORE QUANTITATIVE, THEORY-BASED UNDERSTANDING OF CELLULAR PROCESSES.	56,250.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WILD ME 1726 N TERRY STREET PORTLAND, OR 97217	NONE PC	IN SUPPORT OF A DATA-DRIVEN SYSTEM THAT TURNS CROWDSOURCED PHOTOGRAPHS AND VIDEOS INTO INFORMATION ABOUT WILDLIFE.	850,000.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO SECURE FINANCIAL SUSTAINABILITY FOR 25.2 MILLION HECTARES OF NEW AND EXISTING PROTECTED AREAS IN COLOMBIA, INCLUDING 12 AMAZONIAN CONSERVATION AREAS (ABOUT 8.3 MILLION HECTARES).	180,000.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO SUPPORT THE INTERNATIONAL CONSERVATION PARTNERSHIP.	1,800,000.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO EXPAND THE LORETO REGIONAL CONSERVATION SYSTEM (RCS) IN PERU TO 6.9 MILLION HECTARES BY APPLYING IMPROVED AND INCLUSIVE MANAGEMENT EFFECTIVENESS TOOLS.	740,000.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO SUPPORT INNOVATION IN UNDERSTANDING FREE-FLOWING RIVERS AND CITIZEN SCIENCE DISCOVERY.	1,703,158.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO SUPPORT THE INCLUSION OF ENVIRONMENTAL CRITERIA IN INFRASTRUCTURE DESIGNS IN THE PERUVIAN AND BOLIVIAN AMAZON TO MINIMIZE ENVIRONMENTAL AND SOCIAL IMPACTS.	1,125,995.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO CONSOLIDATE 17 CONSERVATION UNITS (PROTECTED AREAS AND INDIGENOUS LANDS) IN THREE MOSAICS IN BOLIVIA, PERU, AND ECUADOR TOTALING OVER 11 MILLION HECTARES.	2,100,000.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO SUPPORT PROGRESS TOWARD ACHIEVING THE CONSOLIDATION TARGETS FOR PROTECTED AREAS AND INDIGENOUS LANDS IN TWO HIGH BIODIVERSITY MOSAICS IN BOLIVIA, PERU AND ECUADOR (6.8 MILLION HECTARES).	2,011,439.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	IN SUPPORT OF IMPROVING SCIENCE-BASED INFORMATION SYNTHESIS AND ANALYSIS CAPACITY TO ESTIMATE FIRE RISK, AND TO MONITOR AND VERIFY FIRE OCCURRENCE ON THE AGRICULTURAL FRONTIER IN BOLIVIA.	250,000.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO SUPPORT THE ARCTIC WATERWAYS SAFETY COMMITTEE 'S WORK TO DEVELOP A CRUISE TOURISM STANDARD OF CARE THAT WILL PROTECT CRITICAL MARINE MAMMAL HABITAT AND SUBSISTENCE ACTIVITIES.	16,913.
WILLIAM MARSH RICE UNIVERSITY MS-16, PO BOX 1892 HOUSTON, TX 77251	NONE PC	IN SUPPORT OF DEVELOPING BIOSENSORS TO REPORT ON THE ACTIONS OF MARINE MICROBES, PROVIDING MOLECULAR SIGNALS FOR STUDYING MICROBIAL EVOLUTION AND CELL-CELL COMMUNICATION IN THE OCEAN.	312,000.
WILLIAM MARSH RICE UNIVERSITY 6100 MAIN, MS-61 HOUSTON, TX 77005-1827	NONE PC	IN SUPPORT OF RESEARCH TARGETING DISCOVERY OF NEW MATERIALS THAT ENHANCE OUR UNDERSTANDING OF MAGNETISM, UNCONVENTIONAL SUPERCONDUCTIVITY, AND THE INTERPLAY BETWEEN THESE PHENOMENA.	150,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WINDWARD FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE DEVELOPMENT OF A DATA PLATFORM THAT WILL MAKE LOW-COST, AUTOMATED, AND WIDELY ACCESSIBLE EVAPOTRANSPIRATION DATA AVAILABLE AT USER-DEFINED SCALES AND TIMEFRAMES THROUGH A WEB-BASED USER INTERFACE.	250,000.
WINDWARD FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO IMPROVE DECISION-MAKING FOR WATER RESOURCES BY DEVELOPING A GLOBAL DATASET ON LOCAL WATER MANAGEMENT AND QUANTIFYING CORPORATE WATER RISK.	370,000.
WINDWARD FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE WATER TABLE FUNDER MEMBERSHIP GROUP IMPACT THROUGH ITS OPERATIONS, STRATEGIC DEVELOPMENT AND MONITORING AND EVALUATION.	500,000.
WOODS HOLE OCEANOGRAPHIC INSTITUTION 266 WOODS HOLE ROAD WOODS HOLE, MA 02543-1052	NONE PC	TO SUPPORT THE DEVELOPMENT OF AN INTEGRATED SYSTEM THAT USES ACOUSTIC TECHNIQUES TO ENABLE MULTI-VEHICLE SWARMING UNDERWATER.	225,000.
WOODS HOLE OCEANOGRAPHIC INSTITUTION 266 WOODS HOLE ROAD WOODS HOLE, MA 02543-1052	NONE PC	IN SUPPORT OF OBTAINING DEEPER KNOWLEDGE OF MAJOR BIOGEOCHEMICALLY RELEVANT PROTEINS TO INFORM A MECHANISTIC UNDERSTANDING OF GLOBAL MARINE BIOGEOCHEMICAL CYCLES.	216,100.
WOODS HOLE OCEANOGRAPHIC INSTITUTION 266 WOODS HOLE ROAD WOODS HOLE, MA 02543-1052	NONE PC	IN SUPPORT OF LABORATORY AND FIELD EXPERIMENTS TO TEASE APART THE RELATIONSHIPS BETWEEN PAIRS OF INTERACTING MICROBES AND AN IMPORTANT COMPONENT OF DISSOLVED ORGANIC MATTER IN THE OCEAN: LONG CHAINS OF SUGARS.	541,552.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WOODS HOLE OCEANOGRAPHIC INSTITUTION 266 WOODS HOLE ROAD WOODS HOLE, MA 02543-1052	NONE PC	IN SUPPORT OF ENSURING OCEANOGRAPHIC AND EXPERIMENTAL DATA GENERATED USING MOORE FOUNDATION FUNDING IS ARCHIVED AND PUBLICLY ACCESSIBLE TO THE SCIENTIFIC COMMUNITY.	611,018.
WOODS HOLE RESEARCH CENTER INC. 149 WOODS HOLE RESEARCH CENTER FALMOUTH, MA 02543	NONE PC	IN SUPPORT OF RESEARCH TO DEVELOP AN ARCTIC CARBON MONITORING AND PREDICTION SYSTEM THAT WILL INCORPORATE GROUND BASED, AIRBORNE AND SATELLITE REMOTE SENSING DATA AND COMPUTER MODELING INTO A POLICY FRAMEWORK.	800,000.
WORLD BUS. COUNCIL FOR SUSTAINABLE DEV. MAISON DE LA PAIX, CHEMIN EUGENE-RI GENEVA SWITZERLAND	NONE NC	TO IMPLEMENT THE FINANCE COLLABORATION FOR THE CONSERVATION AND FINANCIAL MARKETS INITIATIVE.	3,061,814.
WORLD BUS. COUNCIL FOR SUSTAINABLE DEV. MAISON DE LA PAIX, CHEMIN EUGENE-RI GENEVA SWITZERLAND	NONE NC	TO FOSTER PRE-COMPETITIVE COLLABORATION AMONG MAJOR GLOBAL SOY TRADERS TO REDUCE DEFORESTATION DRIVEN BY SOY IN THE CERRADO BIOME IN BRAZIL.	70,000.
WORLD ECONOMIC FORUM 91-93 ROUTE DE LA CAPITE, CH-1223 COLOGNY/GENEVA SWITZERLAND	NONE NC	IN SUPPORT OF THE TROPICAL FOREST ALLIANCE.	500,000.
WORLD ECONOMIC FORUM 91-93 ROUTE DE LA CAPITE, CH-1223 COLOGNY/GENEVA SWITZERLAND	NONE NC	TO SUPPORT EFFORTS TO ADVANCE THE NATURE ACTION AGENDA.	1,530,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WORLD RESOURCES INSTITUTE 10 G STREET NE, SUITE 800 WASHINGTON, DC 20002	NONE PC	TO CREATE THE ENABLING CONDITIONS FOR ENHANCED FOREST AND LAND USE MONITORING AND TRANSPARENCY TO ACHIEVE CONVERSION FREE COMMODITY PRODUCTION IN THE CHACO.	375,000.
WORLD RESOURCES INSTITUTE 10 G STREET NE, SUITE 800 WASHINGTON, DC 20002	NONE PC	TO SUPPORT COUNTRIES IN APPLYING FOR GLOBAL ENVIRONMENT FACILITY FUNDS FROM THE FOOD SYSTEMS, LAND USE, AND RESTORATION IMPACT PROGRAM, TO INCREASE THEIR INVESTMENTS IN STRATEGIES THAT REDUCE AGRICULTURAL PRESSURE ON NATURAL ECOSYSTEMS.	239,000.
WORLD RESOURCES INSTITUTE 10 G STREET NE, SUITE 800 WASHINGTON, DC 20002	NONE PC	IN SUPPORT OF PHASE I OF THE NEW CLIMATE ECONOMY INITIATIVE.	500,000.
WORLD WILDLIFE FUND CANADA 410 ADELAIDE STREET WEST TORONTO ON CANADA M5V 1S8	NONE PC	TO ENSURE A STRONG FRAMEWORK FOR THE PROTECTION AND SUSTAINABLE USE OF CANADA'S EASTERN ARCTIC OCEAN.	1,100,000.
WORLD WILDLIFE FUND CANADA 410 ADELAIDE STREET WEST TORONTO ON CANADA M5V 1S8	NONE PC	TO ENABLE SUSTAINABLE SHIPPING.	562,685.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO SUPPORT THE IMPLEMENTATION OF INNOVATIVE INFRASTRUCTURE GUIDELINES IN THE COLOMBIAN AMAZON.	700,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO SECURE FINANCIAL SUSTAINABILITY FOR 25.2 MILLION HECTARES OF NEW AND EXISTING PROTECTED AREAS IN COLOMBIA, INCLUDING 12 AMAZONIAN CONSERVATION AREAS (ABOUT 8.3 MILLION HECTARES).	300,000.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO CONSOLIDATE THE LONG-TERM IMPLEMENTATION OF SUSTAINABLE FINANCE STRATEGIES FOR TWO PROTECTED AREAS IN NORTHERN BOLIVIA THAT SERVE AS MODELS FOR THE NATIONAL PARK SYSTEM.	104,965.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO SUPPORT PROTECTED AREA MONITORING, EVALUATION AND PLANNING IN THE BRAZILIAN AMAZON BY GENERATING STRATEGIC INFORMATION THAT CAN BE USED TO MINIMIZE THREATS RELATED TO SUB-OPTIMAL MANAGEMENT WHILE PROMOTING THE USE OF TOOLS AND TECHNOLOGIES THAT MAXIMIZE THEIR EFFECTIVENESS.	225,000.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO IMPLEMENT THE AGRICULTURE COLLABORATION FOR THE FORESTS AND AGRICULTURAL MARKETS INITIATIVE.	3,235,475.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO DEVELOP AND PILOT METHODOLOGY TO SUPPORT COMPANIES TO MAKE AND IMPLEMENT COMMITMENTS TO SCIENCE-BASED TARGETS FOR WATER.	1,200,000.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO DEVELOP ACCOUNTING GUIDANCE FOR GREENHOUSE GAS EMISSIONS RELATED TO LAND USE UNDER THE GREENHOUSE GAS PROTOCOL.	1,234,905.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO ACHIEVE THE FINANCIAL SUSTAINABILITY OF 16.7 MILLION HECTARES OF NATIONAL-LEVEL AMAZON PROTECTED AREAS IN PERU.	3,591,885.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO IMPLEMENT THE FINANCE COLLABORATION FOR THE CONSERVATION AND FINANCIAL MARKETS INITIATIVE.	273,787.
YALE UNIVERSITY 225 PROSPECT STREET NEW HAVEN, CT 06520 8107	NONE PC	IN SUPPORT OF SCIENTIFIC RESEARCH BY DR. IVAN BOZOVIC ON THE SYNTHESIS OF CUPRATE SUPERCONDUCTORS, TWO-DIMENSIONAL TOPOLOGICAL QUANTUM MATERIALS, AND METAL HYDRIDES BY ATOMIC-LAYER-BY-LAYER MOLECULAR BEAM EPITAXY.	305,000.
YALE UNIVERSITY 464 CONGRESS AVENUE SUITE 260 NEW HAVEN, CT 06519	NONE PC	TO SUPPORT THE DEVELOPMENT OF A CLINICAL QUALITY MEASURE TO IMPROVE DIAGNOSIS OF PULMONARY EMBOLISM.	464,000.
YALE UNIVERSITY 17 HILLHOUSE AVENUE NEW HAVEN, CT 06520-8292	NONE PC	TO SUPPORT SCIENTIFIC RESEARCH BY DR. JUDY CHA, INCLUDING DEVELOPMENT OF IN SITU PROBES FOR MONITORING MATERIALS GROWTH BY CHEMICAL VAPOR DEPOSITION AS WELL AS DEVELOPMENT OF SCALABLE FABRICATION PROCESSES FOR NANOSTRUCTURE-BASED QUANTUM MATERIALS.	570,000.
YALE UNIVERSITY 15 PROSPECT STREET NEW HAVEN, CT 06511	NONE PC	IN SUPPORT OF RESEARCH AIMED AT DECIPHERING THE MECHANISM OF HIGH-TEMPERATURE SUPERCONDUCTIVITY AND DISCOVERING NEW SUPERCONDUCTORS THROUGH SYNTHESIS OF NOVEL HETEROSTRUCTURES USING ATOMIC-LAYER-BY-LAYER MOLECULAR BEAM EPITAXY.	190,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
YELLOWSTONE TO YUKON CONSERVATION INITIATIVE PO BOX 157 BOZEMAN, MT 59771-0157	NONE PC	IN SUPPORT OF THE INTERNATIONAL UNION FOR CONSERVATION OF NATURE'S BEYOND AICHI TASK FORCE FOR THE DEVELOPMENT OF GLOBAL CONSERVATION TARGETS AT THE 2020 UNITED NATIONS CONVENTION ON BIOLOGICAL DIVERSITY.	140,945.
ZAPPYLAB, INC. 2120 UNIVERSITY AVE, SUITE 410 BERKELEY, CA 94704	NONE NC	IN SUPPORT OF BUILDING AN ONLINE PROTIST GENETICS COMMUNITY AND EXPANDING AN ONLINE MARINE VIRUS ECOLOGY COMMUNITY TO INCREASE KNOWLEDGE SHARING AND ESTABLISH BEST PRACTICES IN METHODS AND APPROACHES.	100,000.
ACADEMY HEALTH 1666 K STREET NW, SUITE 1100 WASHINGTON, DC 20006	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
ALLIANCE FOR CLIMATE PROTECTION 555 11TH STREET NW, SUITE 601 WASHINGTON, DC 20004	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
ALLIANCE FOR LANGUAGE LEARNERS INTEGRATION EDUCAT 865 OREGON AVENUE PALO ALTO, CA 94303	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
AMAH MUTSUN LAND TRUST PO BOX 6915 ALBANY, CA 94706	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMAZON CONSERVATION ASSOCIATION 1012 14TH STREET NW, SUITE 625 WASHINGTON, DC 20005	NONE PC	TO SUPPORT ENFORCEMENT WITHIN LOS AMIGOS CONSERVATION CONCESSION.	15,000.
AMERICAN ACADEMY OF ARTS AND SCIENCES 136 IRVING STREET CAMBRIDGE, MA 02138	NONE PC	TO SUPPORT GENERAL OPERATIONS.	2,000.
AMERICAN ASSOCIATES OF THE STS FORUM 25 BROADWAY, 9TH FLOOR NEW YORK, NY 10004	NONE PC	IN SUPPORT OF THE AMERICAN ASSOCIATES OF THE STS FORUM.	35,000.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE NW WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF SCIENCE POLICY.	2,000.
AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE 1200 NEW YORK AVENUE NW WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF THE CIVIC SCIENCE FELLOWS PROGRAM, INCLUDING FELLOW SUPPORT.	50,000.
AMERICAN ASTRONOMICAL SOCIETY 1667 K STREET NW, SUITE 800 WASHINGTON, DC 20006	NONE PC	IN SUPPORT OF AAS'S 2019 HACK TOGETHER DAY, AN EVENT FOR THE ASTRONOMY COMMUNITY TO WORK TOGETHER ON COLLABORATIVE ONE-DAY PROJECTS, TO BE HELD JANUARY 10, 2019 IN WASHINGTON D.C.	7,500.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN GEOPHYSICAL UNION 2000 FLORIDA AVENUE NW WASHINGTON, DC 20009	NONE PC	IN SUPPORT OF MEETINGS FOR THE THRIVING EARTH EXCHANGE RELATED TO COMMUNITY SCIENCE ENGAGEMENT EFFORTS.	7,500.
AMERICAN PHYSICAL SOCIETY 1 PHYSICS ELLIPSE COLLEGE PARK, MD 20740-3844	NONE PC	IN SUPPORT OF THE APS DIVISION OF BIOLOGICAL PHYSICS MEETING TO BE HELD FROM MARCH 2-6, 2020 IN DENVER, CO. THIS MEETING WILL FEATURE TOPICS AT THE INTERFACE OF BIOLOGICAL SCIENCES, WITH A PROLIFERATION OF EVOLUTIONARY & ECO-EVOLUTIONARY SESSIONS ATTENDED BY STUDENTS, POSTDOCS, AND PROFESSORS. THE FUNDS WILL PROVIDE TRAVEL AND LODGING SUPPORT TO THE INVITED SPEAKERS FOR THE WEEK, AND ALSO SUPPORT A SOCIAL EVENT FOR STUDENTS AND POSTDOCS TO INTERACT.	12,000.
APOYO LEGAL MIGRANTE ASOCIADO ALMA SOBRATO CENTER FOR NONPROFITS 534A VALLEY WAY MILPITAS, CA 95035	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES 3535 COLLEGE ROAD, SUITE 101 FAIRBANKS, AK 99709	NONE PC	TO SUPPORT THE PARTICIPATION OF ARCTIC INDIGENOUS LEADERS IN THE ARCTIC FUTURES 2050 CONFERENCE TO BE HELD IN SEPTEMBER 2019 IN WASHINGTON, D.C.	20,000.
ASOCIACION INTERAMERICANA PARA LA DEFENSA DEL AMBI 50 CALIFORNIA STREET, SUITE 500 SAN FRANCISCO, CA 94111	NONE PC	TO DEVELOP AN ASSESSMENT ON THE STATUS OF MINING, ESPECIALLY ARTISANAL SCALE MINING, IN THE AMAZON REGION INCLUDING A STAKEHOLDER MAP, DESCRIPTION OF CURRENT POLICIES, DISCUSSION OF CUMULATIVE IMPACTS, AND IDENTIFICATION OF POSSIBLE SOLUTIONS.	30,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ASPEN CENTER FOR PHYSICS 700 WEST GILLESPIE ASPEN, CO 81611	NONE PC	IN SUPPORT OF THE ASPEN WINTER CONFERENCE FUTURE DIRECTIONS IN TOPOLOGICAL STATES OF MATTER: BEYOND THE SINGLE PARTICLE PICTURE TO BE HELD JANUARY 12-17, 2020 IN ASPEN, CO, WHICH WILL BRING TOGETHER EXPERTS FROM BOTH THE CORRELATED AND TOPOLOGICAL COMMUNITIES TO EXPLORE FUTURE DIRECTIONS THAT MERGE BOTH FIELDS, INCLUDING EMERGENT PHYSICS IN THE FLAT BANDS OF TWISTED BILAYER SYSTEMS, AND NEW ROUTES TO QUANTUM COMPUTATION USING TOPOLOGICAL SUPERCONDUCTORS AND SPIN LIQUIDS.	10,000.
ASPEN CENTER FOR PHYSICS 700 WEST GILLESPIE ASPEN, CO 81611	NONE PC	TO SUPPORT THE ASPEN WINTER CONFERENCE NEW APPROACHES TO STRONGLY CORRELATED QUANTUM SYSTEMS TO BE HELD FEBRUARY 3-9, 2019 IN ASPEN, CO.	10,000.
ASSOC. FOR THE SCIENCES OF LIMNOLOGY AND OCEANOGRAPHY 5400 BOSQUE BOULEVARD, SUITE 680 WACO, TX 76710-4446	NONE PC	IN SUPPORT OF THE ASSOCIATION FOR THE SCIENCES OF LIMNOLOGY AND OCEANOGRAPHY 2019 MEETING TO BE HELD FEBRUARY 23-MARCH 2, 2019 IN SAN JUAN, PUERTO RICO.	20,000.
AT HOME HUMANITARIAN 921 OAKES STREET EAST PALO ALTO, CA 94303	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
BAT CONSERVATION INTERNATIONAL INC. PO BOX 162603 AUSTIN, TX 78716	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BAY AREA CANCER CONNECTIONS 2335 EL CAMINO REAL PALO ALTO, CA 94306	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
BAY AREA DISCOVERY MUSEUM 557 MCREYNOLDS ROAD SAUSALITO, CA 94965	NONE PC	IN SUPPORT OF THE BOLD CAPITAL CAMPAIGN.	25,000.
BAY AREA LEGAL AID 1735 TELEGRAPH AVENUE OAKLAND, CA 94612	NONE PC	IN SUPPORT OF IMMIGRATION WORK IN THE SANTA CLARA AND SAN MATEO COUNTIES.	25,000.
BERKELEY LAB FOUNDATION 1111 FRANKLIN STREET, 7TH FLOOR OAKLAND, CA 94607	NONE SO I	TO SUPPORT THE WORK OF THE LAWRENCE BERKELEY NATIONAL LAB.	2,500.
BETSY LEHMAN CENTER FOR PATIENT SAFETY 501 BOYLSTON STREET 5TH FLOOR BOSTON, MA 02116	NONE GOV	IN SUPPORT OF THE BETSY LEHMAN SYMPOSIUM ON MEDICAL ERRORS.	20,000.
BIG SUR LAND TRUST 509 HARTNELL STREET PO BOX 4071 MONTEREY, CA 93940	NONE PC	TO SUPPORT THE COMPREHENSIVE CAMPAIGN.	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BIGELOW LABORATORY FOR OCEAN SCIENCES 60 BIGELOW DRIVE EAST BOOTHBAY, ME 04544	NONE PC	IN SUPPORT OF THE FOURTH MICROBIAL SINGLE CELL GENOMICS WORKSHOP TO BE HELD SEPTEMBER 22-26, 2019 IN BOOTHBAY HARBOR, ME.	10,000.
BOARDSOURCE 750 9TH STREET NW, SUITE 650 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	15,000.
BOSTON COLLEGE TRUSTEES 140 COMMONWEALTH AVENUE CHESTNUT HILL, MA 02467	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
CALIFORNIA COUNCIL ON SCIENCE AND TECHNOLOGY 1130 K STREET, SUITE 280 SACRAMENTO, CA 95814	NONE PC	TO SUPPORT THE FELLOWS PROGRAM.	5,000.
CALIFORNIA COUNCIL ON SCIENCE AND TECHNOLOGY 1130 K STREET, SUITE 280 SACRAMENTO, CA 95814	NONE PC	IN SUPPORT OF A NOVEMBER 2020 WORKSHOP IN CALIFORNIA TO CELEBRATE THE 75TH ANNIVERSARY OF VANNEVAR BUSH'S ESSAY.	104,826.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	TO SUPPORT THE ANNUAL TRUSTEE FUND AND THE BREAKTHROUGH CAMPAIGN.	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CALIFORNIA JAZZ CONSERVATORY, INC. 2087 ADDISON STREET BERKELEY, CA 94704	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
CALIFORNIA JAZZ CONSERVATORY, INC. 2087 ADDISON STREET BERKELEY, CA 94704	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
CALIFORNIA SHAKESPEARE THEATER 701 HEINZ AVENUE BERKELEY, CA 94710	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	10,000.
CARNEGIE MELLON UNIVERSITY 5000 FORBES AVENUE PITTSBURGH, PA 15213	NONE PC	TO SUPPORT THE RESEARCH OF FEI FANG.	25,000.
CATALINA HIGH SCHOOL FOUNDATION 3930 N LARREA LANE TUCSON, AZ 85750	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	10,000.
CENTER FOR HEALTH POLICY DEVELOPMENT TWO MONUMENT SQUARE, SUITE 910 PORTLAND, ME 04101	NONE PC	TO SUPPORT ENGAGEMENT OF POLICYMAKERS IN SUPPORTING FAMILY CAREGIVERS.	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CENTRAL ASSOCIATION OF THE MIRACULOUS MEDAL ST. VINCENT 'S SEMINARY 500 EAST CHELTEN AVENUE PHILADELPHIA, PA 19144	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
CENTRE FOR OCEAN LIFE, DTU AQUA, TECHNICAL UNIV. JAEGBERSBORG ALLE 1, 2920 CHARLOTTENLUND DENMARK	NONE PC	IN SUPPORT OF THE 4TH WORKSHOP ON TRAIT-BASED APPROACHES TO MARINE LIFE FROM AUGUST 18-21, 2019 TO BE HELD IN BUCKINGHAMSHIRE, UK.	7,500.
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE 16 RUE PIERRE ET MARIE CURIE PARIS FRANCE 75005	NONE GOV	IN SUPPORT OF THE 14TH INTERNATIONAL COLLOQUIUM ON ENDOCYTOBIOLOGY AND SYMBIOSIS TO BE HELD ON SEPTEMBER 1-5, 2019 IN LILLE, FRANCE.	15,000.
CENTRO DE AYUDA LEGAL PARA INMIGRANTES OF MV 1125 BENTON STREET SANTA CLARA, CA 95050	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
CHANCELLOR MASTERS & SCHOLARS OF OXFORD 2001 EVANS ROAD CARY, NC 27513	NONE PC	IN SUPPORT OF A SUPPLEMENT ON THE TOPIC OF SEPSIS, MADE FREELY AVAILABLE TO THE PUBLIC IN THE JOURNAL OF INFECTIOUS DISEASES.	20,000.
CHILDREN'S CANCER THERAPY DEVELOPMENT INSTITUTE 12655 SW BEAVERDAM ROAD WEST BEAVERTON, OR 97005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CHILDREN'S CREATIVITY MUSEUM 221 FOURTH STREET SAN FRANCISCO, CA 94103	NONE PC	IN SUPPORT OF AUDIENCE RESEARCH RELEVANT TO SAN FRANCISCO BAY AREA MUSEUM AND SCIENCE CENTERS.	10,000.
CLIMATE INSTITUTE 1201 NEW YORK AVENUE, NW, SUITE 400 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	15,000.
CLIMATEWORKS FOUNDATION 235 MONTGOMERY STREET, SUITE 1300 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THE CONVENING OF THE BRAZILIAN FEDERAL PROSECUTOR OFFICE TO DISCUSS AND AGREE ON NEXT STEPS TO ADVANCE IMPLEMENTATION OF ZERO ILLEGAL DEFORESTATION BEEF SUPPLY CHAINS IN THE AMAZON (I.E., THE TACS).	50,000.
COALITION TO TRANSFORM ADVANCED CARE 1299 PENNSYLVANIA AVENUE NW SUITE 1175 WASHINGTON, DC 20004	NONE PC	IN SUPPORT OF 2019 NATIONAL SUMMIT ON ADVANCED ILLNESS CARE TO BE HELD ON OCTOBER 9-11, 2019 IN MINNEAPOLIS, MN.	10,000.
COALITION TO TRANSFORM ADVANCED CARE 1299 PENNSYLVANIA AVENUE NW SUITE 1175 WASHINGTON, DC 20004	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	20,000.
COASTSIDE HOPE 99 AVENUE ALHAMBRA EL GRANADA, CA 94018	NONE PC	IN SUPPORT OF THE IMMIGRATION AND CITIZENSHIP PROGRAM.	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COLORADO CENTER FOR NURSING EXCELLENCE 5290 E YALE CIRCLE, SUITE 102 DENVER, CO 80222	NONE PC	IN SUPPORT OF THE NATIONAL FORUM OF STATE NURSING WORKFORCE CENTERS CONFERENCE TO BE HELD ON JUNE 12-14, 2019 IN DENVER, CO.	15,000.
COMMUNICATION NETWORK 1717 NORTH NAPER BOULEVARD, SUITE 102 NAPERVILLE, IL 60563	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,500.
COMMUNITY INITIATIVES 354 PINE STREET, SUITE 700 SAN FRANCISCO, CA 94104	NONE PC	THE SUPPORT THE WORK OF THE NORTHERN SIERRA PARTNERSHIP.	10,000.
COMMUNITY LEGAL SERVICES IN EAST PALO ALTO 1861 BAY ROAD EAST PALO ALTO, CA 94303	NONE PC	IN SUPPORT OF THE IMMIGRATION PROGRAM.	25,000.
CONSERVATION INTERNATIONAL FOUNDATION 2011 CRYSTAL DRIVE, #600 ARLINGTON, VA 22202	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
CONSORTIUM FOR OCEAN LEADERSHIP INC. 1201 NEW YORK AVENUE, NW, SUITE 420 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,500.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CONSULTATIVE GROUP ON BIOLOGICAL DIVERSITY PRESIDIO BUILDING 1016, PO BOX 29361 SAN FRANCISCO, CA 94129-0361	NONE PC	TO PROVIDE SUPPORT FOR MEMBERSHIP IN THE BIODIVERSITY FUNDERS GROUP, FORMERLY CALLED THE CONSULTATIVE GROUP ON BIOLOGICAL DIVERSITY, AND FUNDERS OF THE AMAZON BASIN, A PROGRAM OF THE BIODIVERSITY FUNDERS GROUP.	95,000.
COUNCIL ON FOUNDATIONS, INC. 1255 23RD STREET NW, SUITE 200 WASHINGTON, DC 20037	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
C-TAC INNOVATIONS INC. 600 NORTH THIRD STREET SUITE 101 LA CROSSE, WI 54601	NONE PC	IN SUPPORT OF LONG-TERM SUSTAINABILITY FOR RESPECTING CHOICES.	15,000.
DAY WORKER CENTER OF MOUNTAIN VIEW 113 ESCUELA AVENUE MOUNTAIN VIEW, CA 94041	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.
DEUTSCHE AKADEMIE DER NATURFORSCHER LEOPOLDINA E.V JAEGERBERG 1 SAALE GERMANY 6108	NONE PC	TO PROVIDE SUPPORT FOR GLOBAL YOUNG ACADEMY SCHOLAR TRAVEL AND PARTICIPATION IN THE 2019 INTERNATIONAL CONFERENCE FOR YOUNG SCIENTISTS.	50,000.
DUKE UNIVERSITY PO BOX 90600 DURHAM, NC 27708	NONE PC	IN SUPPORT OF THE WOMEN'S TENNIS LOCKER ROOM.	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DUKE UNIVERSITY PO BOX 90600 DURHAM, NC 27708	NONE PC	IN SUPPORT OF THE WOMEN'S TENNIS LOCKER ROOM.	15,100.
EAST BAY INTEGRATED CARE INC. 3470 BUSKIRK AVE PLEASANT HILL, CA 94523	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF BEVERLY HAMILTON POTTER.	1,000.
EAST BAY INTEGRATED CARE INC. 3470 BUSKIRK AVE PLEASANT HILL, CA 94523	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF RONALD R. POTTER, M.D.	1,000.
ECOAGRICULTURE INTERNATIONAL INC. 1730 RHODE ISLAND AVENUE NW, SUITE 601 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF A NORTH AMERICAN LANDSCAPES FINANCE FORUM, SYNTHESIS OF LESSONS LEARNED, AND AN ACTION AGENDA FOR ADVANCING KNOWLEDGE AND PRACTICE AROUND INTEGRATED LANDSCAPE INVESTMENT AND FINANCE IN THE U.S. AND CANADA.	50,000.
ENVIRONMENT FUNDERS CANADA 2 ST. CLAIR AVE EAST SUITE 300 TORONTO ON CANADA M4T 2T5	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	10,000.
ENVIRONMENTAL AND ENERGY STUDY INSTITUTE 1020 19TH STREET, NW, SUITE 650 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	15,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ENVIRONMENTAL GRANTMAKERS ASSOCIATION 475 RIVERSIDE DRIVE, SUITE 960 NEW YORK, NY 10115	NONE PC	IN SUPPORT OF MEMBER ACTIVITIES.	57,100.
ENVIRONMENTAL GRANTMAKERS ASSOCIATION 475 RIVERSIDE DRIVE, SUITE 960 NEW YORK, NY 10115	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	32,900.
ENVIRONMENTAL GRANTMAKERS ASSOCIATION 475 RIVERSIDE DRIVE, SUITE 960 NEW YORK, NY 10115	NONE PC	IN SUPPORT OF ENVIRONMENTAL GRANTMAKERS ASSOCIATION ANNUAL RETREAT.	1,000.
ENVISION EXCELLENCE IN STEM EDUCATION 2108 LAMBERTON ROAD CLEVELAND HEIGHTS, OH 44118	NONE PC	IN SUPPORT OF THE STEM FUNDERS NETWORK.	10,000.
ETH ZURICH FOUNDATION WEINBERGSTRASSE 29 ZURICH SWITZERLAND 8006	NONE PC	IN SUPPORT OF THE 5TH MICROSACLE OCEAN BIOPHYSICS MEETING TO BE HELD IN 2019 IN WHISTLER, CANADA.	15,000.
FAMILY AND YOUTH INITIATIVE INC. 515 M STREET SE SUITE 217 WASHINGTON, DC 20003	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FAMILY CAREGIVER ALLIANCE 101 MONTGOMERY STREET, SUITE 2150 SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF EFFORTS TO PROVIDE CAREGIVER SERVICES.	25,000.
FEDERATION OF AMERICAN SCIENTISTS 1112 16TH STREET, NW WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	15,000.
FEDERATION OF EUROPEAN MICROBIOLOGICAL SOCIETIES MONEYPENNY HOUSE, WESTERN GATEWAY WREXHAM UNITED KINGDOM LL13 7ZB	NONE PC	IN SUPPORT OF THE 8TH CONGRESS OF EUROPEAN MICROBIOLOGISTS TO BE HELD ON JULY 7-11, 2019 IN GLASGOW, SCOTLAND.	15,000.
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY EMPLOYEE OR BOARD MEMBER AS PART OF MATCHING GIFT OR SERVICE RECOGNITION PROGRAMS.	100,000.
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	100,000.
FORCE11 PO BOX 13645 LA JOLLA, CA 92039	NONE PC	TO SUPPORT THE FORCE2019 CONFERENCE TO BE HELD ON OCTOBER 16 AND 17, 2019 IN EDINBURGH, SCOTLAND, UK.	10,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FOREST TRENDS ASSOCIATION 1203 19TH STREET, NW, 4TH FLOOR WASHINGTON, DC 20036	NONE PC	TO SUPPORT FOREST TRENDS IN BRINGING IN NEW CAPITAL.	24,500.
FORSCHUNGSVERBUND BERLIN E.V. MUGGELSEEDAMM 310 BERLIN GERMANY 12587	NONE PC	IN SUPPORT OF THE SYMPOSIUM OF AQUATIC MICROBIAL ECOLOGY 16 TO BE HELD ON SEPTEMBER 1-6, 2019 IN POSTDAM, GERMANY.	15,000.
FOUNDATION CENTER 32 OLD SLIP, 24TH FLOOR NEW YORK, NY 10005-3500	NONE PC	IN SUPPORT OF CANDID, A NEW ENTITY FROM THE MERGED FOUNDATION CENTER AND GUIDESTAR.	100,000.
FOUNDATION CENTER 32 OLD SLIP, 24TH FLOOR NEW YORK, NY 10005-3500	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	125,000.
FOUNDATIONS OF SUCCESS, INC. 4109 MARYLAND AVENUE BETHESDA, MD 20816	NONE PC	IN SUPPORT OF GENERAL OPERATIONS FOR THE CONSERVATION MEASURES PARTNERSHIP.	2,500.
FOUNDATIONS OF SUCCESS, INC. 4109 MARYLAND AVENUE BETHESDA, MD 20816	NONE PC	TO DRAW LESSONS AND RECOMMENDATIONS ON THE EFFECTIVENESS AND SCALABILITY OF JURISDICTIONAL APPROACHES TO REDUCING TROPICAL DEFORESTATION.	37,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FOUNDATIONS OF SUCCESS, INC. 4109 MARYLAND AVENUE BETHESDA, MD 20816	NONE PC	TO DRAW LESSONS AND RECOMMENDATIONS ON THE EFFECTIVENESS AND SCALABILITY OF JURISDICTIONAL APPROACHES TO REDUCING TROPICAL DEFORESTATION.	46,250.
GEOCHEMICAL SOCIETY 5241 BROAD BRANCH ROAD, NW WASHINGTON, DC 20015-1305	NONE PC	IN SUPPORT OF THE GOLDSCHMIDT 2019 CONFERENCE TO BE HELD ON AUGUST 18-23, 2019 IN BARCELONA, SPAIN.	7,500.
GIRLS INCORPORATED OF ALAMEDA COUNTY 510 16TH STREET OAKLAND, CA 94612	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
GORDON RESEARCH CONFERENCES 512 LIBERTY LANE WEST KINGSTON, RI 02892	NONE PC	IN SUPPORT OF THE ANIMAL-MICROBE SYMBIOSES GORDON RESEARCH CONFERENCE TO BE HELD FROM JUNE 16-21, 2019 IN WEST DOVER, VT.	15,000.
GRANTMAKERS FOR EFFECTIVE ORGANIZATIONS 1310 L STREET NW, SUITE 650 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	18,000.
GRANTMAKERS IN AGING INC. 2001 JEFFERSON DAVIS HIGHWAY, SUITE 1011 ARLINGTON, VA 22202	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	7,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GRANTMAKERS IN HEALTH 1100 CONNECTICUT AVENUE NW, SUITE 1200 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	18,400.
HINDU TEMPLE OF ANTELOPE VALLEY INC. 42102 30TH STREET WEST LANCASTER, CA 93536	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF AVINASH BALKRISHNA BHIDAY.	1,000.
HINDU TEMPLE OF ANTELOPE VALLEY INC. 42102 30TH STREET WEST LANCASTER, CA 93536	NONE PC	IN SUPPORT OF THE LIBRARY TO BUY BOOKS IN MEMORY OF MR. VINAYAK RAGHUNATH MULAY.	1,000.
HOLY GHOST CHURCH 417 CARLTON AVENUE BETHLEHEM, PA 18015	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
IMMIGRATION INSTITUTE OF THE BAY AREA 1111 MARKET STREET, 4TH FLOOR SAN FRANCISCO, CA 94103	NONE PC	IN SUPPORT OF GENERAL OPERATIONS OUT OF THE REDWOOD CITY OFFICE.	25,000.
INFO LINE OF SAN DIEGO COUNTY 3860 CALLE FORTUNADA SAN DIEGO, CA 92123	NONE PC	IN SUPPORT OF THE ANNUAL COMMUNITY INFORMATION EXCHANGE SUMMIT TO BE HELD FROM APRIL 24-26, 2019 IN SAN DIEGO, CA.	5,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INQUIREFIRST C/O 2900 FOURTH AVENUE NO 101 SAN DIEGO, CA 92103	NONE PC	TO SUPPORT TRAINING SESSIONS ON SPECIALIZED TECHNIQUES FOR IN-DEPTH INVESTIGATIVE AND DATA-DRIVEN REPORTING ON ENVIRONMENTAL CHALLENGES FACING THE ANDES-AMAZON REGION.	50,000.
INSTITUTE FOR HEALTHCARE IMPROVEMENT 53 STATE STREET, 19TH FLOOR BOSTON, MA 02109	NONE PC	IN SUPPORT OF THE 2019 PATIENT SAFETY CONGRESS ON MAY 15-17, 2019 IN HOUSTON, TX.	10,000.
INSTITUTE FOR HEALTHCARE IMPROVEMENT 53 STATE STREET, 19TH FLOOR BOSTON, MA 02109	NONE PC	IN SUPPORT OF THE 2021 INSTITUTE FOR HEALTHCARE IMPROVEMENT PATIENT SAFETY CONGRESS TO BE HELD MAY 11-13, 2020 IN SAN DIEGO, CALIFORNIA.	10,000.
INSTITUTE FOR HEALTHCARE OPTIMIZATION INC. 7 WELLS AVENUE SUITE 24 NEWTON, MA 02459	NONE PC	TO SUPPORT A BOOK WHICH WILL INCLUDE A DESCRIPTION OF PATIENT FLOW AS A CONCEPT TO CONTROL HEALTHCARE QUALITY AND COST.	50,000.
INSTITUTE FOR STRATEGIC AND EQUITABLE DEVELOPMENT PO BOX 143 BENNETTSVILLE, SC 29512	NONE PC	IN SUPPORT OF THE INDEEP INITIATIVE.	4,000.
INSTITUTE FOR STRATEGIC AND EQUITABLE DEVELOPMENT PO BOX 143 BENNETTSVILLE, SC 29512	NONE PC	TO PROVIDE SUPPORT FOR LEADERSHIP DEVELOPMENT ACTIVITIES SURROUNDING THE PRESIDENTS' FORUM ON RACIAL EQUITY IN PHILANTHROPY.	50,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INSTITUTO DE PESQUISA AMBIENTAL DA AMAZONIA AVENIDA NAZARE 669 BELEM PA BRAZIL 66035-170	NONE PC	TO SUPPORT THE ENGAGEMENT OF THE COALITION FOR FORESTS, AGRICULTURE AND CLIMATE WITH THE TROPICAL FOREST ALLIANCE AND THE GLOBAL ENVIRONMENTAL INSTITUTE ON DEFORESTATION-FREE COMMODITY SUPPLY CHAIN ISSUES.	50,000.
INSTITUTO DO HOMEM E MEIO AMBIENTE DA AMAZONIA RUA DOMINGOS MARREIROS, 2020 BELEM PA BRAZIL 66060-160	NONE PC	TO PROVIDE TECHNOLOGICAL SUPPORT TO THE AMAZON THIRD WAY INITIATIVE.	33,000.
INTERNATIONAL SOCIETY FOR MICROBIAL ECOLOGY PO BOX 40 WAGENINGEN NETHERLANDS	NONE PC	IN SUPPORT OF THE 18TH INTERNATIONAL SOCIETY FOR MICROBIAL ECOLOGY SYMPOSIUM TO BE HELD AUGUST 9-14, 2020 IN CAPE TOWN, SOUTH AFRICA.	22,500.
INTERNATIONAL SOCIETY OF PROTISTOLOGISTS DEPT ZOOLOGY UBC VANCOUVER BC CANADA V6T 1Z4	NONE PC	IN SUPPORT OF THE ISOP-ECOP JOINT MEETING TO BE HELD FROM JULY 28 TO AUGUST 2, 2019 IN ROME, ITALY.	15,000.
INTERNATIONAL UNION FOR CONSERVATION OF NATURE 28 RUE MAUVERNEY GLAND VAUD SWITZERLAND 1196	NONE GOV	IN SUPPORT OF GENERAL OPERATIONS.	25,041.
JEWISH FAMILY SERVICES OF SILICON VALLEY 14855 OKA ROAD SUITE 202	NONE	IN SUPPORT OF THE REFUGEE RESETTLEMENT PROGRAM.	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
LOS GATOS, CA 95032	PC		
JOHN MUIR LAND TRUST PO BOX 31 MARTINEZ, CA 94553	NONE PC	TO SUPPORT THE CAMPAIGN TO SAVE PAINTED ROCK.	10,000.
KQED INC. 2601 MARIPOSA STREET SAN FRANCISCO, CA 94110	NONE PC	TO SUPPORT REPORTING ON CONSERVATION, SCIENCE AND HEALTH TOPICS OF RELEVANCE TO THE BAY AREA AND BEYOND.	17,848.
LA RAZA CENTRO LEGAL-SAN FRANCISCO 474 VALENCIA STREET SUITE 295 SAN FRANCISCO, CA 94103	NONE PC	IN SUPPORT OF THE IMMIGRATION LAW PROGRAM IN SAN MATEO COUNTY.	25,000.
LEGAL AID SOCIETY OF SAN MATEO CO 330 TWIN DOLPHIN DRIVE, SUITE 123 REDWOOD CITY, CA 94065	NONE PC	IN SUPPORT OF THE LIBRE PROGRAM AND CRISP COLLABORATIVE.	50,000.
LONG NOW FOUNDATION BUILDING A, FORT MASON CENTER SAN FRANCISCO, CA 94123	NONE PC	TO COVER THE COST FOR 3-4 NEW SCIENTIFIC SPEAKERS FOR THE MONTHLY LONG-TERM THINKING SEMINAR SERIES HOSTED BY STEWART BRAND.	6,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MAKING WAVES ACADEMY 3220 BLUME DRIVE, SUITE 250 RICHMOND, CA 94806	NONE PC	IN SUPPORT OF YOUTH PROGRAMS.	1,000.
MARIN COUNTRY DAY SCHOOL 5221 PARADISE DRIVE CORTE MADERA, CA 94925	NONE PC	TO SUPPORT FINANCIAL AID.	10,000.
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MA 02139	NONE PC	IN SUPPORT OF A TWO DAY WORKSHOP FOR UNDERGRADUATES HOSTED BY THE MIT DENSITY PERTURBATION GROUP.	30,000.
MAX PLANCK SOCIETY FOR THE ADVANCEMENT OF SCIENCE JAHNSTRASSE 29 HEIDELBERG GERMANY D-69120	NONE PC	IN SUPPORT OF THE 4TH RINGBERG SYMPOSIUM ON GIANT VIRUS BIOLOGY TO BE HELD FROM NOVEMBER 17-20, 2019 NEAR TEGERNSEE, GERMANY.	7,500.
MEDIA IMPACT FUNDERS INC. 200 WEST WASHINGTON SQUARE, SUITE 220 PHILADELPHIA, PA 19106	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	7,500.
MICROBIOLOGY SOCIETY 12 ROGER STREET LONDON UNITED KINGDOM WC1N 2JU	NONE PC	IN SUPPORT OF THE MICROBIOLOGY SOCIETY ANNUAL CONFERENCE 2019 TO BE HELD FROM APRIL 8-11, 2019 IN BELFAST, UK.	15,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MILL VALLEY SCHOOLS COMMUNITY FOUNDATION 409 SYCAMORE AVENUE MILL VALLEY, CA 94941-2231	NONE PC	IN SUPPORT OF THE ENDOWMENT FUND.	1,500.
MONGABAYORG CORPORATION PO BOX 0291 MENLO PARK, CA 94026	NONE PC	IN SUPPORT OF INTERNATIONAL MEDIA AND COMMUNICATIONS AROUND THE CHACO BIOME AND RELATED CONSERVATION EFFORTS.	50,000.
MONTANA STATE UNIVERSITY 301 MONTANA HALL BOZEMAN, MT 59717-2470	NONE GOV	IN SUPPORT OF NURSING WORKFORCE RESEARCH AGENDA MEETING 2019.	80,000.
NAPA COMMUNITY ANIMAL RESPONSE TEAM 3198 SILVERADO TRAIL NAPA, CA 94558	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	20,000.
NATIONAL ACADEMY OF ENGINEERING FUND 2101 CONSTITUTION AVENUE, NW WASHINGTON, DC 20418	NONE PC	TO SUPPORT THE NAE ANNUAL FUND.	10,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF THE NASEM WORKSHOP ON THE POPULATION AND ENVIRONMENTAL IMPACTS OF CALIFORNIA'S WILDFIRES.	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	TO SUPPORT AN EXPERTS' WORKSHOP TO EVALUATE THE APPLICABILITY OF EXISTING FRAMEWORKS FOR ASSESSING EMERGING LIFE SCIENCES CAPABILITIES RELEVANT TO THE BWC.	70,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	TO SUPPORT A WORKSHOP THAT WILL BRING TOGETHER AN INTERDISCIPLINARY, INTERNATIONAL GROUP OF RESEARCHERS AND PUBLIC HEALTH OFFICIALS TO EXPLORE WHAT IS KNOWN AND WHAT CRITICAL KNOWLEDGE GAPS REMAIN REGARDING EXISTING AND POSSIBLE FUTURE RISKS OF HARMFUL INFECTIOUS AGENTS EMERGING FROM THAWING PERMAFROST AND ICE IN THE ARCTIC REGION.	5,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF NASEM SOCIAL CARE REPORT DISSEMINATION EFFORTS.	26,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF THE SCIENCE OF SCIENCE COMMUNICATION INITIATIVE EFFORTS.	50,000.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	TO SUPPORT THE MIRZAYAN FELLOWSHIP PROGRAM.	100,000.
NATIONAL ALLIANCE FOR CAREGIVING 1730 RHODE ISLAND AVENUE, NW, SUITE 812 WASHINGTON, DC 20036	NONE PC	FOR EFFORTS TO SUPPORT FAMILY CAREGIVERS.	15,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL ASSOCIATION OF MEDICAID DIRECTORS 444 N CAPITOL STREET, NW SUITE 524 WASHINGTON, DC 20001	NONE PC	TO SUPPORT A LEADERSHIP DEVELOPMENT PROGRAM.	50,000.
NATIONAL AUDUBON SOCIETY, INC. 431 WEST 7TH AVE, SUITE 101 ANCHORAGE, AK 99501	NONE PC	TO SUPPORT OUTREACH AND COMMUNICATION ABOUT THE PRIBILOF ISLANDS ATLAS OF ECOLOGICAL SCIENCE AND TRADITIONAL KNOWLEDGE.	20,000.
NATIONAL COMMITTEE FOR RESPONSIVE PHILANTHROPY 1900 L STREET NW, SUITE 825 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	10,000.
NATIONAL MARINE SANCTUARY FOUNDATION 8601 GEORGIA AVENUE, SUITE 510 SILVER SPRING, MD 20910	NONE PC	TO SUPPORT CAPITOL HILL OCEANS WEEK TO BE HELD FROM JUNE 4 - JUNE 6, 2019 IN WASHINGTON D.C.	30,000.
NATIONAL NETWORK OF ABORTION FUNDS PO BOX 7354 ATLANTA, GA 30357	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
NATIONAL QUALITY FORUM 1099 14TH STREET NW, SUITE 500 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,125.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO PROVIDE 2019 SUPPORT FOR THE GLOBAL ALLIANCE FOR THE FUTURE OF FOOD PROJECT.	100,000.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE OPEN RESEARCH FUNDERS GROUP.	20,000.
NEW VENTURE FUND 1201 CONNECTICUT AVENUE NW, SUITE 300 WASHINGTON, DC 20036	NONE PC	TO SUPPORT CORPORATE OUTREACH PLANNING THROUGH THE WE MEAN BUSINESS COALITION TO SUPPORT THE INEVITABLE POLICY RESPONSE PROJECT.	50,000.
NEW YORK HALL OF SCIENCE 4701 111TH STREET CORONA, NY 11368	NONE PC	FOR FACILITATION AND MEETING SUPPORT FOR THE SCIENCE CENTER NETWORK IMPROVEMENT COMMUNITY.	30,000.
NEW YORK UNIVERSITY 4 WASHINGTON PLACE NEW YORK, NY 10003	NONE PC	IN SUPPORT OF THE GOTHAM-METRO CONDENSED MATTER MEETING IN NEW YORK CITY, WHICH WILL BRING TOGETHER LEADING SCIENTISTS IN CONDENSED MATTER PHYSICS FROM THE U.S. NORTHEAST TO DISCUSS THE MOST IMPORTANT UNANSWERED QUESTIONS IN THE FIELD.	5,000.
NEW YORK UNIVERSITY 4 WASHINGTON PLACE NEW YORK, NY 10003	NONE PC	TO SUPPORT TRAVEL TO 2019'S ASTRO HACK WEEK.	5,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NORTHERN CALIFORNIA GRANTMAKERS 160 SPEAR STREET, SUITE 360 SAN FRANCISCO, CA 94105	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	17,500.
NUMFOCUS INC. PO BOX 90596 AUSTIN, TX 78709	NONE PC	IN SUPPORT OF THE ROPENSCI OPEN SOURCE RESEARCH R SOFTWARE COMMUNITY WEB PORTAL. THESE FUNDS WILL HELP SUPPORT KEY IMPROVEMENTS TO ALLOW THE ORGANIZATION TO GROW.	9,000.
NUMFOCUS INC. PO BOX 90596 AUSTIN, TX 78709	NONE PC	IN SUPPORT OF THE 2019 SCIPY CONFERENCE TO BE HELD JULY 8-14 IN AUSTIN, TX, WHICH BRINGS TOGETHER PARTICIPANTS FROM INDUSTRY, ACADEMIA, AND GOVERNMENT TO SHOWCASE THEIR LATEST PROJECTS, LEARN FROM SKILLED USERS AND DEVELOPERS, AND COLLABORATE ON CODE DEVELOPMENT.	6,000.
NUMFOCUS INC. PO BOX 90596 AUSTIN, TX 78709	NONE PC	IN SUPPORT OF DIVERSITY INITIATIVES AT JULIACON 2019 TO BE HELD FROM JULY 22-26, 2019 IN BALTIMORE, MD. THE FUNDS FROM THIS CONTRIBUTION WILL BE USED TO FUND CONFERENCE TRAVEL FOR 7 PEOPLE IDENTIFYING AS FEMALE OR COMING FROM UNDERREPRESENTED MINORITY GROUPS IN COMPUTING.	15,000.
NUMFOCUS INC. PO BOX 90596 AUSTIN, TX 78709	NONE PC	IN SUPPORT OF A SERIES OF TWO WORKSHOPS TO BUILD PROTOTYPE AUTOMATION SOFTWARE BASED ON JOSS/WHEDON ROBOT. THIS CONTRIBUTION WILL BRING UP TO 10 JOSS EDITORS FOR TWO SEPARATE HACK HOUSE EVENTS TO IMPROVE TOOL CHAIN, DOCUMENTATION, AND EDITORIAL PROCESSES.	20,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
OCEAN AWARENESS PROJECT INC. 1530 P STREET NW WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF SEJ AND OCEANX PARTICIPATION.	25,000.
OCEAN CONSERVANCY INC. 1300 19TH STREET NW, 8TH FLOOR WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	80,000.
OCEAN CONSERVANCY INC. 1300 19TH STREET NW, 8TH FLOOR WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE AMERICAN SALTWATER GUIDES ASSOCIATION.	25,000.
OCEANA INC. 1025 CONNECTICUT AVENUE NW, SUITE 200 WASHINGTON, DC 20036	NONE PC	TO HOST TWO MEETINGS ON CLIMATE CHANGE, BIODIVERSITY AND GENDER WITH INTERNATIONAL EXPERTS FROM COLOMBIA, MEXICO, COSTA RICA, CHILE AND ECUADOR DURING OCTOBER 2019 THAT WILL RESULT IN A SCIENTIFIC DOCUMENT PROMOTING NATURE-BASED SOLUTIONS TO CLIMATE AND THE CREATION OF A NETWORK OF WOMEN IN CONSERVATION. THE MEETINGS WILL BE HELD IN CHILE IN PREPARATION FOR THE CLIMATE CHANGE CONVENTION OF THE PARTIES.	25,000.
OCEANIC SOCIETY PO BOX 844 30 SIR FRANCIS DRAKE BOULEVARD ROSS, CA 94957	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	20,000.
OHIO STATE UNIVERSITY FOUNDATION	NONE	IN SUPPORT OF THE FUND ESTABLISHED TO HONOR RETIRED DISTINGUISHED UNIVERSITY PROFESSOR DR. ARTHUR EPSTEIN, USED TO PROVIDE TRAVEL AWARDS TO GRADUATE STUDENTS ENROLLED IN THE OSU COLLEGE OF ARTS AND SCIENCES AND MAJORING IN PHYSICS, ESPECIALLY THOSE WHO ARE MAJORING IN CONDENSED MATTER EXPERIMENT OR THEORY, TO PRESENT AT	5,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
1480 W LANE AVENUE COLUMBUS, OH 43221	PC	CONFERENCES, WORKSHOPS AND COLLOQUIA.	
ONE HEALTH PLATFORM OVERHEET 48 BERLARE BELGIUM B-9290	NONE PC	TO SUPPORT THE SIXTH WORLD ONE HEALTH CONGRESS, IN PARTICULAR THE SCIENTIFIC PROGRAM AND EARLY CAREER FELLOWS.	85,000.
ONE HEALTH PLATFORM OVERHEET 48 BERLARE BELGIUM B-9290	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	31,500.
OPTICAL SOCIETY OF AMERICA INC. 2010 MASSACHUSETTS AVENUE WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF THE OPTICAL SOCIETY INCUBATOR MEETING (QUANTUM BIO-PHOTONICS) TO BE HELD ON APRIL 28-30, 2019 IN WASHINGTON D.C. THIS MEETING WILL GATHER EXPERTS FROM A NUMBER OF INTERDISCIPLINARY FIELDS LIKE NANOFABRICATION, QUANTUM OPTICS, AND QUANTUM BIOLOGY TO DISCUSS THE CURRENT AND FUTURE SCIENTIFIC ENDEAVORS IN THIS FIELD. THE CONTRIBUTION WILL SUPPORT THE COST FOR TRAVEL AND LODGING FOR U.S. BASED STUDENTS AND INVITED SPEAKERS THROUGH SCHOLARSHIPS AND HONORARIUM.	15,000.
ORION SOCIETY 187 MAIN STREET GREAT BARRINGTON, MA 01230	NONE PC	TO SUPPORT COVERAGE OF THE BERING SEA'S RICH SOCIAL-ECOLOGICAL SYSTEMS.	12,000.
PACIFIC BEACH COALITION PO BOX 932	NONE	IN SUPPORT OF GENERAL OPERATIONS.	500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PACIFICA, CA 94044	PC		
PARS EQUALITY CENTER PO BOX 2311 MENLO PARK, CA 94026	NONE PC	IN SUPPORT OF GENERAL OPERATIONS AT THE SAN JOSE OFFICE LOCATION.	25,000.
PARTNERS HEALTHCARE SYSTEM, INC. 399 REVOLUTION DRIVE, SUITE 740 SOMERVILLE, MA 02145	NONE PC	TO SUPPORT THE RESEARCH OF STEVEN KELLER.	25,000.
PAWS CHICAGO 1997 N CLYBOURN AVENUE CHICAGO, IL 60614	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
PEAK GRANTMAKING INC. 1666 K STREET, NW, SUITE 440 WASHINGTON, DC 20006	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	15,000.
PENINSULA FAMILY SERVICE 24 SECOND AVENUE SAN MATEO, CA 94401	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PEOPLE ACTING IN COMMUNITY TOGETHER INC. 1100 SHASTA AVENUE, SUITE 210 SAN JOSE, CA 95126	NONE PC	IN SUPPORT OF THE IMMIGRANTS' RIGHTS PROGRAM.	25,000.
PHILLIPS BROOKS HOUSE ASSOCIATION INCORPORATED 1 HARVARD YARD CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF BOSTON REFUGEE YOUTH ENRICHMENT.	100.
PLANNED PARENTHOOD FEDERATION OF AMERICA, INC. 123 WILLIAM STREET, 10TH FLOOR NEW YORK, NY 10038	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
POINT REYES BIRD OBSERVATORY 3820 CYPRESS DRIVE #11 PETALUMA, CA 94954	NONE PC	IN SUPPORT OF THE OFFSHORE WIND ECOLOGICAL DATA LAYER.	35,000.
PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE AV. LIBERTADOR BERN. O 'HIGGINS 340 SANTIAGO CHILE	NONE PC	IN SUPPORT OF THE 1ST ISME-LATIN AMERICA CONGRESS TO BE HELD FROM SEPTEMBER 11-13, 2019 IN VALPARAISO, CHILE.	15,000.
PRERNA2INSPIRE INC. 1400 COLEMAN AVENUE, SUITE A21 SANTA CLARA, CA 95050	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 26 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF THE BIODIVERSITY BEYOND NATIONAL JURISDICTION MEETING ON SHARED MARINE GENETIC RESOURCES TO BE HELD FROM NOVEMBER 15-17, 2019 IN CAMBRIDGE, MA.	7,500.
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 251 6TH AVENUE SAN FRANCISCO, CA 94118	NONE PC	IN SUPPORT OF THE 2019-2020 KINDERGARTEN CLASS.	100.
PUBLIC LABORATORY FOR OPEN TECHNOLOGY AND SCIENCE 55 CROMWELL STREET, SUITE 1C PROVIDENCE, RI 02907	NONE PC	IN SUPPORT OF A MEETING TO PLAN AND SCOPE A PARTNERSHIP BETWEEN PUBLIC LAB AND THRIVING EARTH EXCHANGE.	5,000.
PURDUE UNIVERSITY 525 NORTHWESTERN AVE WEST LAFAYETTE, IN 47907	NONE GOV	TO SUPPORT THE RESEARCH OF TONGCANG LI.	25,000.
RAPTORS OF THE ROCKIES PO BOX 250 FLORENCE, MT 95833	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 101 ZELLERBACH HALL, #4800 BERKELEY, CA 94720-4800	NONE GOV	IN GENERAL SUPPORT TO CAL PERFORMANCES.	10,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF CALIFORNIA 190 DOE LIBRARY BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF CONVENINGS AND COMMUNICATION NEEDS OF THE NEWLY FORMED, INTERNATIONAL ALLIANCE OF RESEARCH SOFTWARE ORGANIZATIONS AND THE ROPENSCI COMMUNITY. RESA FOCUSES ON SOFTWARE THAT IS DEVELOPED TO SERVE A RESEARCH PURPOSE, RATHER THAN THE STANDARD SOFTWARE THAT SOME RESEARCHERS ALSO USE FOR RESEARCH PURPOSES. THE CONTRIBUTION WILL HELP TO CONTRACT WITH A COMMUNITY ORGANIZER TO HELP BUILD AND MAINTAIN COMMUNICATION CHANNELS WITH KEY STAKEHOLDERS IN THE RESEARCH SOFTWARE ECOSYSTEM.	41,500.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1 CENTENNIAL DRIVE BERKELEY, CA 94720-5200	NONE GOV	IN SUPPORT OF SEED FUNDING FOR THE DESIGN AND IMPLEMENTATION OF AN OUTDOOR NATURE LAB AND CLASSROOM.	25,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA KOHNS HALL, UNIVERSITY OF CALIFORNIA SANTA BARBARA, CA 93106	NONE GOV	IN SUPPORT OF THE THIRD ALLIANCE WORKSHOP ASSEMBLING EPIQS GRANTEES AND MEMBERS OF THE TOPOLOGICAL MATERIALS SCIENCE PROJECT (JAPAN), TO BE HELD OCTOBER 21-25, 2019 IN SANTA BARBARA, CA.	40,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1 CENTENNIAL DRIVE BERKELEY, CA 94720-5200	NONE GOV	IN SUPPORT OF GENERAL OPERATIONS.	2,500.
REGENTS OF THE UNIVERSITY OF CALIFORNIA	NONE	IN SUPPORT OF THE TOWARDS AN ULTRA-COMPACT X-RAY FREE-ELECTRON LASER: A NEW CHAPTER IN X-RAY SCIENCE MEETING TO BE HELD AT THE UCLA LUSKIN CONFERENCE CENTER ON JANUARY 21-24, 2019. THIS CONVENING HELD BY 50 SCIENTISTS WILL DISCUSS THE TECHNOLOGICAL INNOVATIONS OF THE FREE-ELECTRON LASER X-RAY AND ITS POTENTIAL AND IMPACT IN BOTH THE PHYSICAL AND LIFE SCIENCES, AND THIS	10,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
430 PORTOLA PLAZA, BOX 951547 LOS ANGELES, CA 90095	GOV	CONTRIBUTION WILL SUPPORT EXPENSES INCURRED DURING THE MEETING, INCLUDING: ROOM RENTAL, TRAVEL, AND FOOD COSTS.	
REGENTS OF THE UNIVERSITY OF CALIFORNIA 1850 RESEARCH PARK DRIVE DAVIS, CA 95618	NONE GOV	TO SUPPORT THE WORK OF THE BETTY IRENE MOORE SCHOOL OF NURSING.	5,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 900 UNIVERSITY AVENUE, STUDENT SERVICES BUILDING RIVERSIDE, CA 92521	NONE GOV	IN SUPPORT OF END-USER DRIVEN JUPYTER NOTEBOOKS FOR COMMON-OMICS WORKFLOWS WORKSHOPS.	20,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 142 LIFE SCIENCES ADDITION #3200 BERKELEY, CA 94720-3200	NONE GOV	IN SUPPORT OF THE 2019 CHOANOFLAGELLATE MEETING TO BE HELD ON MAY 24TH-27TH, 2019 IN BARCELONA, SPAIN.	10,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 3333 CALIFORNIA STREET, SUITE 315 SAN FRANCISCO, CA 94118	NONE GOV	IN SUPPORT OF A CLINICAL INFORMATICS SYMPOSIUM HELD QUARTERLY BY UCSF.	5,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA ONE SHIELDS AVENUE DAVIS, CA 95616	NONE GOV	IN SUPPORT OF THE WEST COAST BACTERIAL PHYSIOLOGISTS CONFERENCE TO BE HELD FROM DECEMBER 13-15, 2019 IN PACIFIC GROVE, CA.	7,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF CALIFORNIA B-20 HEARST FIELD ANNEX # 3411 BERKELEY, CA 94720	NONE GOV	IN SUPPORT OF THE PHYSICS IN MACHINE LEARNING WORKSHOP TO BE HELD ON MAY 29, 2019, IN BERKELEY, CA, FOCUSING ON IMBUING PHYSICAL LAWS INTO ALGORITHM TRAINING, LEARNING NEW PHYSICAL PHENOMENA FROM LEARNED MODELS, PHYSICS-CONSTRAINED REINFORCEMENT LEARNING, PREDICTION OUTSIDE TRAINING PARAMETERS, AND THE PHYSICAL INTERPRETABILITY OF MODELS.	5,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 9500 GILMAN DRIVE, #0608 LA JOLLA, CA 92093-0608	NONE GOV	IN SUPPORT OF THE 2019 ESCIENCE CONFERENCE TO BE HELD SEPTEMBER 24-27, 2019 IN SAN DIEGO, CA, WHICH WILL BRING TOGETHER LEADING RESEARCHERS TO EXPLORE DIGITAL TECHNOLOGIES TO HELP ADVANCE RESEARCH IN MULTIPLE FIELDS. FUNDS WILL GO TOWARDS TRAVEL AND HOTEL EXPENSES FOR 10 INTERNATIONAL PHD STUDENT ATTENDEES.	15,000.
REGENTS OF THE UNIVERSITY OF CALIFORNIA 521 CHEADLE HALL SANTA BARBARA, CA 93106	NONE GOV	IN SUPPORT OF A STRATEGIC PLAN TO SUSTAIN THE ONGOING MENTORSHIP OF OPEN SCIENCE PRACTITIONERS OPENSAPES ENABLES.	50,000.
REGENTS OF THE UNIVERSITY OF COLORADO 13001 EAST 17TH PLACE AURORA, CO 80045	NONE PC	TO SUPPORT THE RESEARCH OF KAMBEZ BENAM.	25,000.
REGENTS OF THE UNIVERSITY OF MICHIGAN DANA BUILDING, 440 CHURCH STREET ANN ARBOR, MI 48109-1041	NONE GOV	IN GENERAL SUPPORT TO PHD STUDENTS.	10,000.
REGENTS OF THE UNIVERSITY OF MICHIGAN DANA BUILDING, 440 CHURCH STREET	NONE	TO SUPPORT THE DEAN'S ENGINEERING SUSTAINABLE SYSTEMS FELLOWSHIP.	10,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ANN ARBOR, MI 48109-1041	GOV		
REGENTS OF THE UNIVERSITY OF MICHIGAN DANA BUILDING, 440 CHURCH STREET ANN ARBOR, MI 48109-1041	NONE GOV	TO SUPPORT THE ROSINA BIERBAUM AWARD IN CLIMATE ADAPTATION AND MITIGATION.	10,000.
RENSSELAER POLYTECHNIC INSTITUTE 110 8TH STREET TROY, NY 12180-3590	NONE PC	IN SUPPORT OF AN EVENT TO BRING TOGETHER DATA RESEARCHERS AND PROFESSIONALS TO DISCUSS HOW BEST TO IMPROVE SCIENCE AND SOCIETY THROUGH DATA-DRIVEN DISCOVERY AND INNOVATION, TO BE HELD APRIL 2-4, 2019 IN PHILADELPHIA, PA.	6,000.
RESTORE CHILDREN AND FAMILY SERVICES 545 NORTH BAYVIEW AVENUE SUNNYVALE, CA 94085	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF CHUCK WONG.	1,000.
RIEKES CENTER FOR HUMAN ENHANCEMENT 3455 EDISON WAY MENLO PARK, CA 94025	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	30,000.
ROSS SCHOOL FOUNDATION PO BOX 582 ROSS, CA 94957	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ROYAL INSTIT. FOR THE ADVANC. OF LEARNING - MCGILL 3773 UNIVERSITY STREET ROOM A5 MONTREAL QUEBEC CANADA H3A 2B4	NONE PC	IN SUPPORT OF THE SECOND INTERNATIONAL CONFERENCE ON HOLOBIONTS TO BE HELD FROM MAY 8-10, 2019 IN MONTREAL, QUEBEC.	10,000.
RUTGERS UNIVERSITY FOUNDATION 7 COLLEGE AVENUE - WINANTS HALL NEW BRUNSWICK, NJ 08901-1261	NONE PC	IN SUPPORT OF THE NEW HORIZONS IN DISORDERED AND INTERACTING QUANTUM MATERIALS WORKSHOP TO BE HELD OCTOBER 11-12, 2019 AT RUTGERS UNIVERSITY IN NEW BRUNSWICK, NEW JERSEY.	15,000.
SALZBURG GLOBAL SEMINAR, INC. 1250 H STREET NW, SUITE 1150 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF THE SALZBURG GLOBAL SEMINAR, MOVING MEASUREMENT INTO ACTION: DESIGNING GLOBAL PRINCIPLES FOR MEASURING PATIENT SAFETY, TO BE HELD SEPTEMBER 5-10, 2019 IN SALZBURG, AUSTRIA.	15,000.
SAN DIEGO STATE UNIVERSITY FOUNDATION 5250 CAMPANILE DRIVE SAN DIEGO, CA 92182-1931	NONE SO III FI	IN SUPPORT OF THE CALORIMETRY AND MICROBIAL ECOLOGY WORKSHOP TO BE HELD AT THE TELLURIDE SCIENCE RESEARCH CENTER FROM JUNE 17-21, 2019 AND THE THERMODYNAMIC THEORY AND MICROBIAL ECOLOGY WORKSHOP TO BE HELD AT THE CANYON LAND RESEARCH STATION FROM JUNE 22-28, 2019.	7,500.
SAN FRANCISCO SPCA 201 ALABAMA STREET SAN FRANCISCO, CA 94103-4217	NONE PC	IN SUPPORT OF THE PET ADOPTION CENTER-MISSION CAMPUS.	500.
SAN MATEO RESOURCE CONSERVATION DISTRICT 80 STONE PINE ROAD SUITE 100 HALF MOON BAY, CA 94019	NONE GOV	TO THE SANTA CRUZ MOUNTAIN STEWARDSHIP NETWORK TO DEVELOP A FINE-SCALE VEGETATION MAP AND TOPOGRAPHIC LANDSCAPE DATABASE FOR SANTA CLARA AND SANTA CRUZ COUNTIES.	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SANTA CLARA COUNTY ASIAN LAW ALLIANCE INC. 991 W HEDDING STREET #202 SAN JOSE, CA 95126	NONE PC	IN SUPPORT OF IMMIGRATION & DEPORTATION DEFENSE.	25,000.
SANTA FE INSTITUTE 1399 HYDE PARK ROAD SANTA FE, NM 87501	NONE PC	IN SUPPORT OF A SANTA FE INSTITUTE WORKSHOP FOCUSED ON THE CONCEPTS OF ECOSYSTEM RESILIENCE AND FUNCTION TO BE HELD MAY 8-9, 2019 IN SANTA FE, NM.	7,500.
SCIENTIFIC COMMITTEE ON OCEANIC RESEARCH 222 S CHAPEL STREET, 111 ROBINSON HALL NEWARK, DE 19716	NONE PC	IN SUPPORT OF THE 2019 MARGALEF SUMMER COLLOQUIUM TO BE HELD FROM SEPTEMBER 15-19, 2019 IN BARCELONA, SPAIN.	7,500.
SERVICES & IMMIGRANT RIGHTS & EDUCATION NETWORK 1415 KOLL CIRCLE #108 SAN JOSE, CA 95112	NONE PC	IN SUPPORT OF GENERAL OPERATIONS OUT OF THE SAN JOSE OFFICE.	25,000.
SHE'S THE FIRST INC. 590 AVENUE OF THE AMERICAS, 13TH FLOOR NEW YORK, NY 10011	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF ROSE MICHAELS.	1,000.
SIMPLE STEPS COMMUNITY CONNECTION 265 CAMBRIDGE AVENUE, #60307 PALO ALTO, CA 94306	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	25,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SMILE TRAIN INC. 633 THIRD AVENUE, 9TH FLOOR NEW YORK, NY 10017	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF ALEKSANDAR PEJAKOVIC.	1,000.
SMITHSONIAN INSTITUTION 1100 JEFFERSON DRIVE, SUITE 3123, MRC 705 WASHINGTON, DC 20013-7012	NONE PC	IN SUPPORT OF THE SMITHSONIAN TROPICAL RESEARCH INSTITUTE MICROBIAL SYMPOSIUM TO BE HELD DECEMBER 2019 IN PANAMA.	25,000.
SOCIAL GOOD FUND 12651 SAN PABLO AVENUE #5473 RICHMOND, CA 94801	NONE PC	IN SUPPORT OF THE NOCTURNISTS PODCAST.	20,000.
SOCIAL GOOD LABS 147 NATOMA STREET SAN FRANCISCO, CA 94105	NONE PC	IN SUPPORT OF THE PLANNING AND PILOTING PHASE OF THE NATIVE SPECIES PROJECT.	50,000.
SOCIETY FOR MEDICAL DECISION MAKING INC. 390 AMWELL ROAD, SUITE 402 HILLSBOROUGH, NJ 08844	NONE PC	IN SUPPORT OF ONE SYMPOSIUM AND A SHORT COURSE AT THE ANNUAL NORTH AMERICAN MEETING, TO BE HELD FROM OCTOBER 20-23, 2019 IN PORTLAND, OR.	15,000.
SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE INC. 909 DAVIS STREET SUITE 500 EVANSTON, IL 60201	NONE PC	IN SUPPORT OF THE SOCIETY TO IMPROVE DIAGNOSIS IN MEDICINE 'S AUSDEM 2019 CONFERENCE ON APRIL 28TH - 30TH, 2019 IN MELBOURNE, AUSTRALIA.	15,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SONOMA LAND TRUST 822 FIFTH STREET SANTA ROSA, CA 95404	NONE PC	TO SUPPORT GENERAL OPERATIONS.	20,000.
SORBONNE UNIVERSITY PLACE GEORGES TEISSIER ROSCOFF FRANCE 29680	NONE GOV	IN SUPPORT OF THE 12TH EDITION OF THE ADVANCED PHYTOPLANKTON COURSE TO BE HELD ON MAY 19-JUNE 8, 2019 IN ROSCOFF, FRANCE.	7,500.
SOUTHERN POVERTY LAW CENTER INC. 400 WASHINGTON AVENUE MONTGOMERY, AL 36104	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF DONALD LEE CAMPBELL.	1,000.
ST JUDE CHILDRENS RESEARCH HOSPITAL INC 501 ST. JUDE PLACE MEMPHIS, TN 38105	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF MARY MONTTOYA.	1,000.
STARSHIP ORION 555 AVENUE DEL ORA REDWOOD CITY, CA 94062	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK ASSOC. 475 RIVERSIDE DRIVE SUITE 530 NEW YORK, NY 10115	NONE PC	TO EXPLORE OPPORTUNITIES TO EXPAND ECOLOGICAL ZONING.	157,871.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TEX USERS GROUP PO BOX 2311 PORTLAND, OR 97208	NONE PC	IN SUPPORT OF THE TEX PDF ACCESSIBILITY PROJECT, AN EFFORT TO MAKE THE TEX TYPESETTING SYSTEM USER-FRIENDLY FOR VISUALLY-IMPAIRED PEOPLE.	10,000.
TEXAS A&M UNIVERSITY 400 BIZZELL STREET COLLEGE STATION, TX 77843	NONE GOV	TO SUPPORT THE PRODUCTION OF A DOCUMENTARY ON THE GOLD MINING CRISIS IN MADRE DE DIOS, PERU.	20,000.
THE ASPEN INSTITUTE INC 2300 N STREET NW, SUITE 700 WASHINGTON, DC 20037	NONE PC	TO SUPPORT THE ASPEN HEALTH STRATEGY GROUP'S EFFORTS TO ADDRESS THE ANTIMICROBIAL RESISTANCE CHALLENGE.	70,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 326 GALVEZ STREET STANFORD, CA 94305-6055	NONE PC	IN SUPPORT OF CONFERENCE SUPPORT ACTIVITIES FOR THE EXTREMELY HIGH INTENSITY LASER PHYSICS CONFERENCE (EXHILP) 2019, A FOUR-DAY EVENT BEING HELD SEPTEMBER 3-6 IN STANFORD, CA, EXPLORING THEORY, EXPERIMENT, AND SIMULATIONS OF LASER-MATTER AND LASER-VACUUM INTERACTIONS AT HIGH INTENSITIES, WITH A FOCUS ON STRONG FIELD QUANTUM ELECTRODYNAMICS.	25,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 300 PASTEUR DRIVE STANFORD, CA 94305	NONE PC	IN SUPPORT OF THE 5TH ANNUAL STANFORD 25 BEDSIDE TEACHING SYMPOSIUM.	10,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 326 GALVEZ STREET STANFORD, CA 94305-6055	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	40,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 3145 PORTER DRIVE PALO ALTO, CA 94304-1234	NONE PC	IN SUPPORT OF A DAY-LONG CONFERENCE AT STANFORD UNIVERSITY IN FALL 2019 TO HELP LAUNCH THE NAM AI SPECIAL REPORT.	20,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 300 PASTEUR DRIVE STANFORD, CA 94305	NONE PC	IN SUPPORT OF THE PLANETARY HEALTH ALLIANCE'S ANNUAL MEETING, TO BE HELD FROM SEPTEMBER 4-6, 2019 IN STANFORD, CA.	50,000.
THE BRANSON SCHOOL PO BOX 887 ROSS, CA 94957	NONE PC	IN SUPPORT OF THE ANNUAL FUND.	5,000.
THE CAMPANILE FOUNDATION 5500 CAMPANILE DRIVE SAN DIEGO, CA 92182-8030	NONE PC	IN SUPPORT OF THE ELLEN OCHOA ENDOWMENT FOR THE FEMINEER PROGRAM.	100,000.
THE CHANCELLOR, MASTERS AND SCHOLARS OF CAMBRIDGE 16 MILL LANE CAMBRIDGE UNITED KINGDOM CB2 1SB	NONE PC	IN SUPPORT OF THE PROTISTOLOGY UK MICROBIAL SYMBIOSIS MEETING TO BE HELD DECEMBER 16-17, 2019 IN LONDON, UK.	25,000.
THE CLINICAL PROBLEM SOLVERS, INC. 1208 SOUTH STREEPER STREET BALTIMORE, MD 21224	NONE PC	IN SUPPORT OF THE CLINICAL PROBLEM SOLVERS PODCAST.	20,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE EXPLORATORIUM PIER 17, SUITE 100 SAN FRANCISCO, CA 94111	NONE PC	TO SUPPORT OF THE TRUSTEE ANNUAL FUND AND THE MAY 2020 PARTY AT THE PIER FUNDRAISER.	50,000.
THE PRINCE OF WALES'S CHARITABLE FOUNDATION CLARENCE HOUSE, ST JAMES' LONDON UNITED KINGDOM SW1A 1BA	NONE PC	IN SUPPORT OF PRINCE'S ACCOUNTING FOR SUSTAINABILITY PROJECT'S BRAZIL CIRCLE OF PRACTICE.	50,000.
THE UCLA FOUNDATION 10920 WILSHIRE BOULEVARD, SUITE 900 LOS ANGELES, CA 90024	NONE PC	IN SUPPORT OF THE FIRST KAPA SCIENCE TEAM MEETING TO BE HELD IN SEPTEMBER, 2019 BY THE DEPARTMENT OF PHYSICS AND ASTRONOMY. THIS MEETING WILL BRING TOGETHER SCIENTISTS AND ENGINEERS FROM CALIFORNIA, HAWAII, AND ELSEWHERE TO WORK ON THE DESIGN, DEVELOPMENT, AND SCIENCE DELIVERABLES OF THE NEWLY-FUNDED KECK ALL-SKY PRECISION ADAPTIVE OPTICS PROJECT. THIS GIFT WILL SUPPORT DIRECT COSTS ASSOCIATED WITH THE EVENT INCLUDING TRAVEL, LODGING, AND MEALS.	10,000.
THERE WITH CARE OF THE BAY AREA 2682 MIDDLEFIELD ROAD, SUITE H REDWOOD CITY, CA 94063	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
THIS IS MY EARTH, INC. 125 MAIDEN LANE, SUITE 8B NEW YORK, NY 10038	NONE PC	TO SUPPORT THE ACQUISITION AND CONSERVATION OF A FIVE-ACRE PARCEL ON THE EASTERN COAST OF THE TURNEFFE ATOLL IN BELIZE.	5,000.
THUNDERBIRD LODGE PRESERVATION SOCIETY PO BOX 6812 INCLINE VILLAGE, NV 89450	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	20,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TIDES CANADA INITIATIVES SOCIETY 400-163 HASTINGS STREET VANCOUVER BC CANADA V6B 1H5	NONE PC	TO SUPPORT THE EFFORTS OF THE ARCTIC FUNDERS COLLABORATIVE'S SECRETARIAT TO COORDINATE CONVENINGS OF ARCTIC FUNDERS, STRENGTHEN CORPORATE UNDERSTANDING OF EACH FUNDER'S PRIORITIES AND STRATEGIES, AND BROADEN THE TENT OF ARCTIC FUNDERS.	25,000.
TIDES CANADA INITIATIVES SOCIETY 400-163 HASTINGS STREET VANCOUVER BC CANADA V6B 1H5	NONE PC	TO SUPPORT THE ARCTIC FUNDERS COLLABORATIVE IN HIRING A MOMENTUM FELLOW.	20,000.
TIDES CENTER 1014 TORNEY AVENUE SAN FRANCISCO, CA 94109	NONE PC	TO SUPPORT THE NATIONAL POLST PARADIGM IN THEIR EFFORTS TO IMPROVE THE QUALITY OF CARE FOR PATIENTS WHO ARE SERIOUSLY ILL OR FRAIL.	15,000.
TIDES CENTER 1012 TORNEY AVENUE SAN FRANCISCO, CA 94129	NONE PC	TO SUPPORT THE EFFORTS OF THE ELDERCARE WORKFORCE ALLIANCE TO ADDRESS THE ELDERCARE WORKFORCE CRISIS.	15,000.
TRASH FREE MARYLAND 3002 LAUREL AVENUE CHEVERLY, MD 20785	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
TRUST FOR CONSERVATION INNOVATION	NONE	IN SUPPORT OF THE ANNUAL NATIONAL SCIENCE POLICY NETWORK SYMPOSIUM, A THREE-DAY EVENT BEING HELD ON NOVEMBER 1-3, 2019 IN MADISON, WISCONSIN, THAT IS FOCUSED ON BRINGING TOGETHER EARLY CAREER SCIENTISTS WITH AN INTEREST SCIENCE POLICY, ADVOCACY AND DIPLOMACY. THE SCHEDULE INCLUDES SPEAKERS, PANELS AND WORKSHOPS, AND AIMS TO PROVIDE AN ENVIRONMENT WHERE SCIENTISTS	8,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
405 14TH STREET, SUITE 164 OAKLAND, CA 94612-2705	PC	NATIONWIDE CAN INTERACT AND FORM CONNECTIONS THAT WILL LEAD TO NEW COLLABORATIONS AND PROJECTS. THE FUNDS FROM THIS CONTRIBUTION WILL GO TOWARDS THE SUPPORT OF TRAVEL, HOUSING, AND OTHER SYMPOSIUM COSTS.	
TRUST FOR PUBLIC LAND 101 MONTGOMERY STREET, SUITE 900 SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	15,000.
TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA 209 SOUTH 33RD STREET PHILADELPHIA, PA 19104-6396	NONE PC	IN SUPPORT OF A WORKSHOP AIMED AT NON-TENURED ASSISTANT PROFESSORS AND POSTDOCS WORKING IN TOPOLOGICAL MATTER RESEARCH. THE WORKSHOP WILL BRING TOGETHER RESEARCHERS FROM THEORETICAL AND EXPERIMENTAL PHYSICS AND SOLID STATE CHEMISTRY IN AN EFFORT TO ENCOURAGE MULTIDISCIPLINARY COLLABORATION AND DISCOVERY OF NEW PRACTICAL APPLICATIONS. THE WORKSHOP WILL BE HELD FROM SEPTEMBER 19-21, 2019 AT THE FLATIRON INSTITUTE IN NEW YORK, NY.	10,000.
UC SAN DIEGO FOUNDATION 3333 N TORREY PINES COURT, SUITE 200 LA JOLLA, CA 92093-0608	NONE PC	IN SUPPORT OF PUBLIC SCREENINGS AND ACCOMPANYING TALKS BY SCIENTISTS ABOUT NOVA 'S RECENT DOCUMENTARY ON QUANTUM ENTANGLEMENT.	6,000.
UNION OF CONCERNED SCIENTISTS, INC. TWO BRATTLE SQUARE, 6TH FLOOR CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
UNIVERSITAT DE VALENCIA	NONE	IN SUPPORT OF THE FRONTIER IN QUANTUM MATERIALS WORKSHOP, TO BE HELD JULY 22-26, 2020 IN VALENCIA, SPAIN, WHICH WILL COVER FRONTIER TOPICS IN EXPERIMENTAL AND THEORETICAL QUANTUM MATERIALS	50,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AVENUE BLASCO IBANEZ, 13 VALENCIA SPAIN 46010	GOV	RESEARCH OF DIRECT RELEVANCE TO THE EPIQS PROGRAM, AND AT WHICH MANY CURRENT EPIQS INVESTIGATORS WILL PRESENT THEIR MOORE FOUNDATION FUNDED WORK.	
UNIVERSITY COLLEGE DUBLIN FOUNDATION CLG BELFIELD DUBLIN IRELAND	NONE PC	IN SUPPORT OF THE EUROPEAN MOLECULAR BIOLOGY ORGANIZATION WORKSHOP ON COMPARATIVE GENOMICS OF EUKARYOTIC MICROBES: DISSECTING SOURCES OF EVOLUTIONARY DIVERSITY TO BE HELD FROM OCTOBER 14-19, 2019 IN SANT FELUI DE GUIXOLS, SPAIN.	15,000.
UNIVERSITY OF ALASKA FOUNDATION 910 YUKON DRIVE FAIRBANKS, AK 99775	NONE PC	IN SUPPORT OF THE DEVELOPMENT AND PUBLICATION OF FOUR SEMI-ANNUAL IKAAGVIK SIKUKUN NEWSLETTERS THAT WILL PROVIDE INFORMATION ON RECENT AND UPCOMING ACTIVITIES ON SEA-ICE STUDIES (LIKE FIELDWORK AND COMMUNITY VISITS) TO THE NATIVE VILLAGE OF KOTZEBUE.	50,000.
UNIVERSITY OF ARIZONA FOUNDATION 1111 N CHERRY AVENUE TUCSON, AZ 85721-0109	NONE PC	TO SUPPORT THE COLLEGE OF ENGINEERING DEAN'S DISCRETIONARY FUND.	10,000.
UNIVERSITY OF BRITISH COLUMBIA 2020-2207 MAIN MALL VANCOUVER BC CANADA V6T 1Z4	NONE PC	IN SUPPORT OF THE SCIENTIFIC COMMITTEE ON OCEANIC RESEARCH ANNUAL MEETING TO BE HELD FROM SEPTEMBER 23-25, 2019 IN TOYAMA, JAPAN.	10,000.
UNIVERSITY OF BRITISH COLUMBIA 2329 WEST MALL VANCOUVER BC CANADA V6T 1Z3	NONE PC	IN SUPPORT OF A FIELD-BASED COLLABORATIVE MEETING IN MARINE MICROBIAL ECOLOGY TO BE HELD AT THE CARMABI RESEARCH STATION IN CURACAO IN APRIL 2019.	12,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CALIFORNIA BERKELEY FOUNDATION 1995 UNIVERSITY AVENUE, SUITE 401 BERKELEY, CA 94704-1058	NONE PC	IN GENERAL SUPPORT AT THE DISCRETION OF THE UNIVERSITY OF CALIFORNIA, BERKELEY, DEAN OF BIOLOGY.	25,000.
UNIVERSITY OF CALIFORNIA IRVINE FOUNDATION 100 THEORY SUITE 250 IRVINE, CA 92617-5601	NONE PC	IN SUPPORT OF THE NATIONAL MICROBIOME CENTERS MEETING TO BE HELD ON JUNE 25-26, 2019 IN ORANGE COUNTY, CA.	7,500.
UNIVERSITY OF CALIFORNIA SAN FRANCISCO FOUNDATION 220 MONTGOMERY STREET, SUITE 500 SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF THE CARDIOLOGY COUNCIL.	15,000.
UNIVERSITY OF CALIFORNIA SAN FRANCISCO FOUNDATION 220 MONTGOMERY STREET, SUITE 500 SAN FRANCISCO, CA 94104	NONE PC	TO SUPPORT THE BORDER HUMANITARIAN HEALTH INITIATIVE.	25,000.
UNIVERSITY OF CAPE TOWN UCT MEDICAL SCHOOL, ANZIO ROAD CAPE TOWN SOUTH AFRICA 7925	NONE PC	IN SUPPORT OF A WORKSHOP TO BE HELD FROM JANUARY 13-17, 2020 TO CREATE A COURSE TAILORED SPECIFICALLY FOR AFRICAN LIFE SCIENCE RESEARCHERS. THIS WORKSHOP WILL PROVIDE TECHNICAL KNOWLEDGE AND INSIGHTS WITHIN THE CONTEXT OF IMAGING INFECTION AND FOCUS ON HOST-PATHOGEN/PARASITE INTERACTIONS, INCLUDING HANDS-ON EXPERIENCE OF SAMPLE PREPARATION FOR LIVE CELL IMAGING, FUNDAMENTALS OF OPTICS, AND FLUORESCENT IMAGING PROBES. THE FUNDS WILL GO TOWARDS PROVIDING TEACHING FACULTY AND STUDENT ACCOMMODATION AND TRAVEL TO THE UNIVERSITY OF CAPE TOWN WHERE THE WORKSHOP IS BEING HELD.	15,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF CHICAGO 5720 SOUTH ELLIS AVENUE CHICAGO, IL 60637	NONE PC	IN SUPPORT OF THE CONFERENCE FOR UNDERGRADUATE WOMEN IN PHYSICS TO BE HELD JANUARY 17-19, 2020 IN CHICAGO, ILLINOIS. THE PRIMARY GOAL OF THE CUWIP CONFERENCE IS TO HELP UNDERGRADUATE WOMEN CONTINUE IN PHYSICS BY PROVIDING THEM WITH THE OPPORTUNITY TO EXPERIENCE A PROFESSIONAL CONFERENCE, INFORMATION ABOUT GRADUATE SCHOOL AND PROFESSIONS IN PHYSICS, AND ACCESS TO OTHER WOMEN IN PHYSICS OF ALL AGES WITH WHOM THEY CAN SHARE EXPERIENCES, ADVICE, AND IDEAS. THE FUNDS FROM CONTRIBUTION WILL GO TOWARDS HOUSING AND MEALS AND OTHER CONFERENCE COSTS.	5,000.
UNIVERSITY OF MARYLAND COLLEGE PARK FOUNDATION INC 4603 CALVERT ROAD COLLEGE PARK, MD 20740	NONE PC	TO SUPPORT THE 4TH ANNUAL FUNDAMENTALS OF QUANTUM MATERIALS WINTER SCHOOL, A WEEK-LONG PROGRAM TO BE HELD IN JANUARY 2020 WITH 30-40 SELECTED STUDENTS/POSTDOCS AND 10 INVITED SPEAKERS FROM AROUND THE US AND CANADA. THE PROGRAM WILL FOCUS ON SUPERCONDUCTING MATERIALS AND CHARACTERIZATION METHODS AND IS DESIGNED TO PROVIDE TOP JUNIOR SCIENTISTS WITH A PEDAGOGICAL BACKGROUND AND PRACTICAL TRAINING IN QUANTUM MATERIALS RESEARCH.	30,000.
UNIVERSITY OF MARYLAND COLLEGE PARK FOUNDATION INC 4603 CALVERT ROAD COLLEGE PARK, MD 20740	NONE PC	IN SUPPORT OF THE SCHOOL OF PUBLIC POLICY DEAN'S FUND.	15,000.
UNIVERSITY OF MONTANA FOUNDATION 600 CONNELL AVENUE MISSOULA, MT 59812	NONE PC	IN SUPPORT OF UNRESTRICTED FUNDING FOR WILDLIFE BIOLOGY.	2,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF OREGON FOUNDATION 1720 E 13TH AVENUE SUITE 410 EUGENE, OR 97403-2253	NONE PC	IN SUPPORT OF THE 2ND ANNUAL FISH MICROBIOTA MEETING TO BE HELD ON SEPTEMBER 3-5, 2019 IN EUGENE, OR.	7,500.
UNIVERSITY OF WASHINGTON 24 KINCAID HALL, BOX 351800 SEATTLE, WA 98195	NONE GOV	IN SUPPORT OF GENE FLOW AND MICROBIAL EVOLUTION SYNTHESIS MEETING TO BE HELD DURING FALL 2020 IN FRIDAY HARBOUR LABS, WA.	8,000.
UNIVERSITY OF WISCONSIN FOUNDATION 1848 UNIVERSITY AVENUE MADISON, WI 53726	NONE PC	IN SUPPORT OF THE SIEBEL FAMILY MEN'S BASKETBALL SCHOLARSHIP FUND.	8,400.
UNIVERSITY SYSTEM OF MARYLAND 1101 MAIN ADMINISTRATION BUILDING, 7901 REGENTS DR COLLEGE PARK, MD 20742	NONE GOV	FOR A WORKSHOP ON THE CURRENT STATE OF FIRE DETECTION AND MONITORING AND THE POTENTIAL FOR NEW EARLY DETECTION AND RESPONSE TECHNOLOGIES.	3,436.
VANDERBILT UNIVERSITY 2301 VANDERBILT PLACE NASHVILLE, TN 37240-7727	NONE PC	TO ESTABLISH THE JUSTICE-MOORE FAMILY DEAN'S FACULTY FELLOWSHIP AT THE SCHOOL OF NURSING.	100,000.
WALNUT AVENUE FAMILY & WOMEN'S CENTER 303 WALNUT AVENUE SANTA CRUZ, CA 95060	NONE PC	TO SUPPORT FAMILY SUPPORT SERVICES IN MEMORY OF JANE MARIE SCHYMEINSKY.	1,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WASHINGTON UNIVERSITY ONE BROOKINGS DRIVE ST. LOUIS, MO 63130-4899	NONE PC	TO SUPPORT THE RESEARCH OF ARPITA BOSE.	25,000.
WATERKEEPER ALLIANCE INC. 180 MAIDEN LANE, SUITE 603 NEW YORK, NY 10038	NONE PC	TO SUPPORT GENERAL OPERATIONS.	25,000.
WEB4GOOD 141 S TAAFFE STREET, #70072 SUNNYVALE, CA 94085	NONE PC	TO PROVIDE CONFERENCE SUPPORT FOR WEB4GOOD.	5,000.
WESLEYAN UNIVERSITY 45 WYLLYS AVENUE MIDDLETOWN, CT 06459	NONE PC	TO SUPPORT FINANCIAL AID.	20,000.
WILDLIFE CONSERVATION NETWORK INC. 209 MISSISSIPPI STREET SAN FRANCISCO, CA 94107	NONE PC	TO SUPPORT THE ANNUAL WILDLIFE CONSERVATION EXPO AND THE ANNUAL WILDLIFE CONSERVATION WORKSHOPS, WHICH RAISE AWARENESS FOR CONSERVATION PROGRAMS IN LATIN AMERICAN AND BEYOND, AND PROVIDE CAPACITY-BUILDING TRAININGS TO BIOLOGISTS AND CONSERVATIONISTS.	10,000.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	TO DEVELOP A MANAGEMENT PLAN FOR THE BENI BIOLOGICAL STATION IN BOLIVIA.	30,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
WILLIAM MARSH RICE UNIVERSITY 6100 MAIN, MS-61 HOUSTON, TX 77005-1827	NONE PC	TO SUPPORT A WORKSHOP ON NEW FRONTIERS OF QUANTUM MATERIALS RESEARCH TO BE HELD OCTOBER 3-4, 2019, WHICH WILL BRING TOGETHER RESEARCHERS RECOGNIZED FOR THEIR WORLD-LEADING EXCELLENCE IN QUANTUM MATERIALS RESEARCH TO EXPLORE OPPORTUNITIES FOR SYNERGISTIC RESEARCH COLLABORATIONS WITH A FOCUS ON UNCONVENTIONAL SUPERCONDUCTIVITY, QUANTUM CRITICALITY AND NOVEL PHASES, TOPOLOGICAL MATTER, LOW-DIMENSIONAL SYSTEMS, AND QUANTUM COHERENCE AND DYNAMICS.	5,000.
WILLIAM MARSH RICE UNIVERSITY 6100 MAIN, MS-61 HOUSTON, TX 77005-1827	NONE PC	TO SUPPORT A CONFERENCE ON STRONGLY CORRELATED QUANTUM MATERIALS TO BE HELD APRIL 29-MAY 30, 2019 IN SANTA FE, NM	20,000.
WILMINGTON UNITED METHODIST CHURCH 50 E LOCUST STREET WILMINGTON, OH 45177	NONE PC	TO SUPPORT GENERAL OPERATIONS IN MEMORY OF DORIS CATHERINE SNYDER.	1,000.
WONDERFEST 47 ALTA WAY CORTE MADERA, CA 94925	NONE PC	IN SUPPORT OF THE PARTICIPATION OF SCIENTISTS AND GRADUATE STUDENTS IN A SCIENCE ENVOY PROGRAM.	8,000.
WORLD RESOURCES INSTITUTE 10 G STREET NE, SUITE 800 WASHINGTON, DC 20002	NONE PC	IN SUPPORT OF A JOINT BENEFITS AUTHORITY PILOT IN SAN FRANCISCO FOCUSED ON GREEN INFRASTRUCTURE TO MITIGATE FLOOD RISK, ENHANCE HABITAT, REDUCE POLLUTION, AND INCREASE EFFICIENCY OF THE WATER SUPPLY SYSTEM.	40,000.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO SUPPORT THE INVEST SUSTAINABILITY CONFERENCE TO BE HELD IN JUNE 2019 IN PANAMA.	12,500.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	TO SUPPORT A CONVENING TO DISCUSS AND DELIBERATE A STRATEGY FOR CURBING DEFORESTATION LINKED TO BEEF AND SOY IN THE CHACO.	8,000.
YALE UNIVERSITY 157 CHURCH STREET NEW HAVEN, CT 06510-2100	NONE PC	IN SUPPORT OF THE VIRUS EVOLUTION ON THE MUTUALIST - PARASITE CONTINUUM CONFERENCE TO BE HELD ON OCTOBER 21-25, 2019 IN ROSCOFF, FRANCE.	10,000.
ZEN HOSPICE PROJECT INC. 273 PAGE STREET SAN FRANCISCO, CA 94102	NONE PC	TO SUPPORT THE SCALING OF THE MINDFUL CAREGIVER EDUCATION TRAINING PROGRAM FOR FAMILY CAREGIVERS.	15,000.
A BETTER CHANCE INC. 253 W 35TH STREET 6TH FLOOR NEW YORK, NY 10001	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
A NONPROFIT GROUP ENRICHING LIVES INC. 773 CENTER BLVD, SUITE 464 FAIRFAX, CA 94930	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS FOUNDAT PO BOX 29405 PRESIDIO OF SAN FRANCISCO SAN FRANCISCO, CA 94129	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	4,000.
ACUPUNCTURISTS WITHOUT BORDERS 4605 NE FREMONT STREET SUITE 204B PORTLAND, OR 97213	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	360.
ALIANZA AMERICAS 2875 W CERMAK ROAD CHICAGO, IL 60623	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	300.
ALZHEIMER 'S DISEASE AND RELATED DISORDERS ASSOCIA 225 NORTH MICHIGAN AVENUE, SUITE 1700 CHICAGO, IL 60601	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	860.
AMAZON CONSERVATION ASSOCIATION 1012 14TH STREET NW, SUITE 625 WASHINGTON, DC 20005	NONE PC	TO SUPPORT THE AMAZON BIODIVERSITY CENTER.	400.
AMERICAN ACADEMY OF ARTS AND SCIENCES 136 IRVING STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENC 1200 NEW YORK AVENUE NW WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,500.
AMERICAN BUDDHIST CULTURAL SOCIETY 1750 VAN NESS AVE SAN FRANCISCO, CA 94109	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
AMERICAN CANCER SOCIETY INC. PO BOX 22478 OKLAHOMA CITY, OK 73123	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
AMERICAN CIVIL LIBERTIES UNION FOUNDATION INC. 125 BROAD STREET, 18TH FLOOR NEW YORK, NY 10004-2400	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
AMERICAN FUND FOR CHARITIES 2 LIBERTY SQUARE, SUITE 500 BOSTON, MA 02109	NONE PC	TO SUPPORT UNIVERSITY OF TORONTO SCHOOLS.	2,000.
AMERICAN HEART ASSOCIATION INC. 7272 GREENVILLE AVENUE DALLAS, TX 75231	NONE PC	FOR SUPPORT OF TEAM UPWORK IN THE 2019 SF HEART WALK.	100.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
AMERICAN JEWISH COMMITTEE 165 EAST 56TH STREET NEW YORK, NY 10022	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
AMERICAN JEWISH WORLD SERVICE INC. 45 WEST 36TH STREET, 11TH FLOOR NEW YORK, NY 10018	NONE PC	IN SUPPORT OF THE ERIC A. SHAPIRO MEMORIAL FUND.	50.
AMERICAN PHILOSOPHICAL SOCIETY 104 S 5TH STREET PHILADELPHIA, PA 19106	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
ANEURYSM FOUNDATION 3636 CASTRO VALLEY BOULEVARD SUITE 3 CASTRO VALLEY, CA 94546	NONE PC	TO SUPPORT TEAM POSSE UP! AD-JUNIOR'S SQUAD. FUNDRAISING FOR TAAF WALK 2019.	104.
ANIMALS ASIA FOUNDATION LIMITED 300 BROADWAY SUITE 32 SAN FRANCISCO, CA 94133	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
ANTI-DEFAMATION LEAGUE 605 THIRD AVENUE NEW YORK, NY 10158	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	208.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ASIAN ART MUSEUM FOUNDATION OF SAN FRANCISCO 200 LARKIN STREET SAN FRANCISCO, CA 94112	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	17,000.
ASOCIACION INTERAMERICANA PARA LA DEFENSA DEL AMBI 50 CALIFORNIA STREET, SUITE 500 SAN FRANCISCO, CA 94111	NONE PC	IN SUPPORT OF SOCIEDAD PERUANA DE DERECHO AMBIENTAL EFFORTS TO STRENGTHEN PERU'S ENVIRONMENTAL POLICIES.	1,032.
AUBURN AUTOMOTIVE HERITAGE INC 1600 SOUTH WAYNE STREET AUBURN, IN 46706	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
BAY AREA OPEN SPACE COUNCIL 2150 ALLSTON WAY, SUITE 320 BERKELEY, CA 94704	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
BAY AREA YOUNG SURVIVORS BAYS INC PO BOX 190056 SAN FRANCISCO, CA 94119	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,050.
BELMONT-REDWOOD SHORES PUBLIC SCHOOL FOUNDATION PO BOX 5196 BELMONT, CA 94002	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	4,600.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BERKELEY ATHLETIC FUND PO BOX 11525 BERKELEY, CA 94712	NONE PC	TO SUPPORT THE 2019 BOYS SWIM TEAM.	200.
BERKELEY HIGH SCHOOL JAZZ PO BOX 1027 BERKELEY, CA 94701	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
BIG BROTHERS BIG SISTERS OF THE BAY AREA 65 BATTERY STREET, SECOND FLOOR SAN FRANCISCO, CA 94111	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	16,460.
BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN SY KELLNER HALL, 1440 MONROE STREET MADISON, WI 53711	NONE GOV	IN SUPPORT OF SCHOLARSHIPS.	60,000.
BOISE PHILHARMONIC ASSOCIATION INC 516 S 9TH STREET BOISE, ID 83702	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
BUENA VISTA UNITED METHODIST CHURCH 2311 BUENA VISTA AVENUE ALAMEDA, CA 94501	NONE PC	IN SUPPORT OF THE TOPAZ PROJECT.	8,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
BUTTE HUMANE SOCIETY 2580 FAIR STREET CHICO, CA 95928	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
BVM CAPACITY BUILDING INSTITUTE INC. 3645 MARKETPLACE BOULEVARD, SUITE 130-209 EAST POINT, GA 30344	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
CALIFORNIA ACADEMY OF SCIENCES 55 MUSIC CONCOURSE DRIVE, GOLDEN GATE PARK SAN FRANCISCO, CA 94118	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	6,000.
CALIFORNIA BLUEGRASS ASSOCIATION PO BOX 255561 SACRAMENTO, CA 95865	NONE PC	IN SUPPORT OF INSTRUMENTS FOR FIRE SURVIVORS.	200.
CALIFORNIA COMMUNITY FOUNDATION 221 S FIGUEROA STREET SUITE 400 LOS ANGELES, CA 90012	NONE PC	TO SUPPORT THE WILDFIRE RELIEF FUND.	360.
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CA 91125	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	30,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CALIFORNIA PACIFIC MEDICAL CENTER FOUNDATION PO BOX 7999 SAN FRANCISCO, CA 94120-7999	NONE PC	TO SUPPORT THE MARSHALL MATTHEWS ALS FAMILY FUND.	600.
CARLMONT HIGH SCHOOL 1400 ALAMEDA DE LAS PULGAS BELMONT, CA 94002	NONE GOV	IN SUPPORT OF GENERAL OPERATIONS.	80.
CARLMONT HIGH SCHOOL 1400 ALAMEDA DE LAS PULGAS BELMONT, CA 94002	NONE GOV	IN SUPPORT OF THE CARLMONT HIGH SCHOOL CHOIR.	600.
CARLSBAD UNIFIED SCHOOL DISTRICT 3557 LANCER WAY CARLSBAD, CA 92008	NONE GOV	IN SUPPORT OF CARLSBAD GIRLS GOLF.	70.
CARRY THE FUTURE 121 W LEXINGTON DRIVE SUITE L 106D GLENDALE, CA 91203	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
CENTER FOR COASTAL STUDIES INC. 5 HOLWAY AVENUE PROVINCETOWN, MA 02657	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CENTRAL SIERRA ENVIRONMENTAL RESOURCE CENTER PO BOX 396 TWIN HARTS, CA 95383	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
CHAI LIFELINE INC. 151 WEST 30TH STREET NEW YORK, NY 10001	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
CHANNEL ISLANDS MARINE AND WILDLIFE INSTITUTE INC. PO BOX 4250 SANTA BARBARA, CA 93140	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
CHARLES ARMSTRONG SCHOOL 1405 SOLANA DRIVE BELMONT, CA 94002	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
CHINESE MYANMAR BUDDHIST ASSOCIATION OF AMERICA 1211 NIMITZ DRIVE DALY CITY, CA 94105	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
CHP 11 99 FOUNDATION 2244 N STATE COLLEGE BOULEVARD FULLERTON, CA 92831	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CHRIST CHURCH WASHINGTON PARISH 620 G STREET SE WASHINGTON, DC 20003	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.
CHUNG TAI INTERNATIONAL CHAN BUDDHIST ASSOCIATION 750 EAST ARQUES AVE SUNNYVALE, CA 94085-3830	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
CHURCH WORLD SERVICE INC. 28606 PHILLIPS STREET, PO BOX 968 ELKHART, IN 46515	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
CIRCUS BELLA 231 MULLEN AVENUE SAN FRANCISCO, CA 94110	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
CITY LIGHTS PERFORMANCE GROUP OF SAN JOSE INC. 529 S SECOND STREET SAN JOSE, CA 95112	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
CLEAN WATER FUND 1444 I STREET NW, SUITE 400 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	70.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
CLIMATE INSTITUTE 1201 NEW YORK AVENUE, NW, SUITE 400 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	300.
COASTSIDE ADULT DAY HEALTH CENTER 925 MAIN STREET, SUITE A HALF MOON BAY, CA 94019	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
COASTSIDE CHILDRENS PROGRAMS 494 MIRAMONTES AVENUE HALF MOON BAY, CA 94019	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,400.
COMIC RELIEF INC. 488 MADISON AVENUE, 10TH FLOOR NEW YORK, NY 10022	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	524.
COMMONWEAL PO BOX 316 BOLINAS, CA 94924	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
COMPASSION INTERNATIONAL, INC. 12290 VOYAGER PARKWAY COLORADO SPRINGS, CO 80921	NONE PC	TO SUPPORT CHILD SPONSORSHIP.	912.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COMPUTER HISTORY MUSEUM 1401 N SHORELINE BOULEVARD MOUNTAIN VIEW, CA 94043	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	20,000.
CONSERVATION EARTH INC. PO BOX 3098 HALF MOON BAY, CA 94109	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
CONSERVATION INTERNATIONAL FOUNDATION 2011 CRYSTAL DRIVE, #600 ARLINGTON, VA 22202	NONE PC	IN SUPPORT OF THE SOUTH AFRICA PROGRAM.	10,000.
CONSERVATION INTERNATIONAL FOUNDATION 2011 CRYSTAL DRIVE, #600 ARLINGTON, VA 22202	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	10,000.
CORPORATE ACCOUNTABILITY LAB 6214 N GLENWOOD AVENUE CHICAGO, IL 60660	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
COUNTRY LANE HOME & SCHOOL CLUB 5140 COUNTRY LANE SAN JOSE, CA 95129	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	720.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
COUNTRY LANE HOME & SCHOOL CLUB 5140 COUNTRY LANE SAN JOSE, CA 95129	NONE PC	IN SUPPORT OF COUNTRY LANE HOME & SCHOOL CLUB 'S 2019 WALKATHON.	500.
COW HOLLOW PRESCHOOL 65 FUNSTON AVENUE SAN FRANCISCO, CA 94129	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	13,000.
CRISTO REY SAN JOSE HIGH SCHOOL 1389 E SANTA CLARA STREET SAN JOSE, CA 95116	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
CURIODYSSEY 1651 COYOTE POINT DRIVE SAN MATEO, CA 94401	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	348.
DANCERS GROUP 44 GOUGH STREET, SUITE 201 SAN FRANCISCO, CA 94103	NONE PC	TO SUPPORT THE WORK OF THE PUSH UP SOMETHING HIDDEN PROJECT.	8,000.
DONORSCHOOSE ORG 134 WEST 37TH STREET FLOOR 11 NEW YORK, NY 10018	NONE PC	IN SUPPORT OF A CLASSROOM FUNDRAISER AT TINCHER PREPARATORY SCHOOL.	50.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
DOUGY CENTER, INC. PO BOX 86852 PORTLAND, OR 97286	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,200.
DRAGON PRODUCTIONS THEATRE COMPANY 2120 BROADWAY STREET REDWOOD CITY, CA 94063	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
DUKE UNIVERSITY BOX 90581 DURHAM, NC 27708-0581	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.
EARTHJUSTICE 50 CALIFORNIA STREET, SUITE 500 SAN FRANCISCO, CA 94111	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
EAST BAY INTEGRATED CARE INC. 3470 BUSKIRK AVENUE PLEASANT HILL, CA 94523	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
ECOLOGY CENTER INC. 339 E. LIBERTY STREET, SUITE 300 ANN ARBOR, MI 48104	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	220.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ELDERGIVERS 236 WEST PORTAL AVE, SUITE 845 SAN FRANCISCO, CA 94127	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,000.
ENVIRONMENTAL AND ENERGY STUDY INSTITUTE 1020 19TH STREET, NW, SUITE 650 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	800.
ENVIRONMENTAL DEFENSE FUND INCORPORATED 257 PARK AVENUE SOUTH NEW YORK, NY 10010	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	656.
EPISCOPAL CHURCH IN THE DIOCESE OF CALIFORNIA PO BOX 217 ROSS, CA 94957	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,000.
EQUAL JUSTICE AMERICA INC. 13540 EAST BOUNDARY ROAD BUILDING II, SUITE 204 MIDLOTHIAN, VA 23112	NONE PC	IN SUPPORT OF THE PROGRAM AT GEORGE WASHINGTON UNIVERSITY.	100.
EQUAL RIGHTS ADVOCATES INC. 1170 MARKET STREET, SUITE 700 SAN FRANCISCO, CA 94102	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FACING HISTORY AND OURSELVES INC. 16 HURD ROAD BROOKLINE, MA 02445	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
FAMILY AND YOUTH INITIATIVE INC. 515 M STREET SE SUITE 217 WASHINGTON, DC 20003	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	5,600.
FAMILY GIVING TREE SOBRATO CENTER FOR NONPROFITS, 606 VALLEY WAY MILPITAS, CA 95035	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.
FAMILY VIOLENCE APPELLATE PROJECT 449 15TH STREET, SUITE 104 OAKLAND, CA 94612	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
FEEDING AMERICA 35 EAST WACKER DRIVE, SUITE 2000 CHICAGO, IL 60601	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	50.
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	10,010.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	49,892.
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	60,000.
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	60,000.
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	14,000.
FIDELITY INVESTMENTS CHARITABLE GIFT FUND 100 CROSBY PARKWAY, MAIL ZONE KC1D-FCS COVINGTON, KY 41015-9325	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	40,000.
FISHER HOUSE FOUNDATION INC. 12300 TWINBROOK PARKWAY #410 ROCKVILLE, MD 20852	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	150.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
FRIENDS COMMUNITY SCHOOL INC. 5901 WESTCHESTER PARK DRIVE COLLEGE PARK, MD 20740	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,100.
FRIENDS OF THE EARTH 1101 15TH STREET, NW11TH FLOOR WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	110.
GEORGIANA BRUCE KIRBY PREPARATORY SCHOOL 425 ENCINAL STREET SANTA CRUZ, CA 95060	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	7,000.
GIVELIGHT FOUNDATION 1879 LUNDY AVENUE, SUITE 226 SAN JOSE, CA 95131	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
GLOBAL IMPACT 1199 NORTH FAIRFAX STREET, SUITE 300 ALEXANDRIA, VA 22314	NONE PC	TO SUPPORT LIBERATED CAPITAL: A DECOLONIZING WEALTH FUND.	208.
GLOBAL STICKY NETWORK INC 1805 GLENWOOD LANE NEWPORT BEACH, CA 92660	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	16,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GOLDEN GATE NATIONAL PARKS CONSERVANCY BUILDING 201, FORT MASON SAN FRANCISCO, CA 94123	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	12,500.
GOOD SHEPHERD FOOD BANK PO BOX 1807 AUBURN, ME 04211	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
GORILLA REHAB. AND CONSERVATION ED. CENTER INC. PO BOX 334 CUMBERLAND CENTER, ME 04021	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
GRACE SCIENCE FOUNDATION PO BOX 114 MENLO PARK, CA 94026	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
GROUNDWORK GROUP PO BOX 713685 CINCINNATI, OH 45271-3685	NONE PC	IN SUPPORT OF THE A&F CHALLENGE FUND.	20,000.
GUJRI FOUNDATION PO BOX 1028 VACAVILLE, CA 95696	NONE PC	TO SUPPORT RECOVERY EFFORTS FROM THE SOLANO COUNTY FIRES.	9,750.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
GUJRI FOUNDATION PO BOX 1028 VACAVILLE, CA 95696	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	41,174.
HANNAH PROJECT PARTNERSHIP FOR ACAD. ACHIEVEMENT 3001 BRIDGEWAY SUITE 442 SAUSALITO, CA 94965	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
HELP A MOTHER OUT 101 BROADWAY SUITE 250 OAKLAND, CA 94607	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	214.
HIAS INC. 1300 SPRING STREET SUITE 500 SILVER SPRING, MD 20910	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
HILARITY FOR CHARITY 9301 WILSHIRE BOULEVARD SUITE 507 BEVERLY HILLS, CA 90210	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
HINDU TEMPLE OF ANTELOPE VALLEY INC. 42102 30TH STREET WEST LANCASTER, CA 93536	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	4,004.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
HOMELESS PRENATAL PROGRAM, INC. 2500 18TH STREET SAN FRANCISCO, CA 94110	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	150.
HOSPICE BY THE BAY 17 E SIR FRANCIS DRAKE BOULEVARD LARKSPUR, CA 94939	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
HUMANE SOCIETY OF VENTURA COUNTY 402 BRYANT STREET OJAI, CA 93023	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
HUMANE SOCIETY SILICON VALLEY 901 AMES AVENUE MILPITAS, CA 95035	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
HUMANITIES WEST PO BOX 546 SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,100.
INCLINE BOOSTERS CLUB 499 VILLAGE BOULEVARD INCLINE VILLAGE, NV 89451	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	48,950.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INCLINE HIGH SCHOOL 499 VILLAGE BOULEVARD INCLINE VILLAGE, NV 89451	NONE PC	IN SUPPORT OF THE WE THE PEOPLE PROGRAM.	1,000.
INTER-AMERICAN DIALOGUE 1155 15TH STREET NW SUITE 800 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.
INTERCULTURAL CENTER FOR THE STUDY OF DESERTS AND PO BOX 44208 TUCSON, AZ 85733-4208	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
INTERFAITH FOOD MINISTRY OF NEVADA COUNTY 440 HENDERSON STREET GRASS VALLEY, CA 95945	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	900.
INTERNATIONAL BLUEGRASS MUSIC ASSOCIATION INC. 4206 GALLATIN PIKE NASHVILLE, TN 37216	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
INTERNATIONAL ORTHODOX CHRISTIAN CHARITIES, INC. 110 WEST ROAD SUITE 360 BALTIMORE, MD 21204	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
INTERNATIONAL ORTHODOX CHRISTIAN CHARITIES, INC. 110 WEST ROAD SUITE 360 BALTIMORE, MD 21204	NONE PC	TO SUPPORT KOSOVO AREA OF GREATEST NEEDS.	400.
INTERNATIONAL RESCUE COMMITTEE INC. 122 E 42ND STREET NEW YORK, NY 10168	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,850.
INTERNATIONAL SNOW LEOPARD TRUST 4649 SUNNYSIDE AVENUE #325 SEATTLE, WA 98103	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
ISLAND INSTITUTE PO BOX 648 ROCKLAND, ME 04841	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	72.
JDRF INTERNATIONAL 26 BROADWAY, 14TH FLOOR NEW YORK, NY 10004	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
JEWISH FAMILY & COMMUNITY SERVICES OF THE EAST BAY 2484 SHATTUCK AVENUE, SUITE 210 BERKELEY, CA 94704	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	738.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
JOBTRAIN INC. 1200 O'BRIEN DRIVE MENLO PARK, CA 94025	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
JOHN MUIR FOUNDATION 1400 TREAT BOULEVARD WALNUT CREEK, CA 94597-2142	NONE PC	TO SUPPORT THE COMPREHENSIVE CANCER CENTER FUND.	10,000.
JOHN MUIR FOUNDATION 1400 TREAT BOULEVARD WALNUT CREEK, CA 94597-2142	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	10,000.
KID STOCK INC. 1539 FUNSTON AVENUE SAN FRANCISCO, CA 94122	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	54,000.
KIPP FOUNDATION 1404 FRANKLIN STREET SUITE 500 OAKLAND, CA 94612	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
KQED INC. 2601 MARIPOSA STREET SAN FRANCISCO, CA 94110	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,280.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
LABORATORY FOR ICON & IDIOM INC. 675 THIRD AVENUE, 32ND FLOOR NEW YORK, NY 10017	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
LAME DEER PUBLIC SCHOOL PO BOX 96 LAME DEER, MT 59043	NONE GOV	IN SUPPORT OF THE LAME DEER ARTS ACTIVITY FUND.	4,000.
LAND TRUST OF SANTA CRUZ COUNTY 617 WATER STREET SANTA CRUZ, CA 95060	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
LARKIN STREET YOUTH SERVICES 134 GOLDEN GATE AVENUE SAN FRANCISCO, CA 94102	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
LAVA MAE 1015 FILLMORE STREET, #379 SAN FRANCISCO, CA 94115	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,400.
LEAGUE TO SAVE LAKE TAHOE 2608 LAKE TAHOE BOULEVARD SOUTH LAKE TAHOE, CA 96150	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,400.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
LOS ALTOS COMMUNITY FOUNDATION 183 HILLVIEW AVENUE LOS ALTOS, CA 94022	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
LOS ALTOS COMMUNITY FOUNDATION 183 HILLVIEW AVENUE LOS ALTOS, CA 94022	NONE PC	IN SUPPORT OF THE MVLA COMMUNITY SCHOLARS.	1,000.
LOS PADRES FOREST WATCH POST OFFICE BOX 831 SANTA BARBARA, CA 93102	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
LUTHERAN IMMIGRATION AND REFUGEE SERVICE 700 LIGHT STREET BALTIMORE, MD 21230	NONE PC	TO PROVIDE SUPPORT FOR CHILDREN AND FAMILIES AFFECTED BY THE SOUTH BORDER CRISIS.	100.
MAINE CANCER FOUNDATION 170 US ROUTE 1 SUITE 250 FALMOUTH, ME 04105	NONE PC	IN SUPPORT OF THE 2019 TRI FOR A CURE.	100.
MAINE COMMUNITY FOUNDATION INC. 245 MAIN STREET ELLSWORTH, ME 04605	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MAITREYA BUDDHIST INSTITUTE 3065 DECOTO ROAD FREMONT, CA 94555	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	8,000.
MAKE A WISH FOUNDATION OF GREATER BAY AREA 1333 BROADWAY, SUITE 200 OAKLAND, CA 94612	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
MAKE-A-WISH FOUNDATION AMERICA 1702 E HIGHLAND AVENUE SUITE 400 PHOENIX, AZ 85016	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	50.
MANNED SPACE FLIGHT EDUCATION FOUNDATION INC. 1601 NASA PARKWAY HOUSTON, TX 77058	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
MARIN COMMUNITY FOUNDATION 5 HAMILTON LANDING, SUITE 200 NOVATO, CA 94949	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY EMPLOYEE OR BOARD MEMBER AS PART OF MATCHING GIFT OR SERVICE RECOGNITION PROGRAMS.	6,000.
MARIN COMMUNITY FOUNDATION 5 HAMILTON LANDING, SUITE 200 NOVATO, CA 94949	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	54,252.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MARIN COMMUNITY FOUNDATION 5 HAMILTON LANDING, SUITE 200 NOVATO, CA 94949	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY EMPLOYEE OR BOARD MEMBER AS PART OF MATCHING GIFT OR SERVICE RECOGNITION PROGRAMS.	50,426.
MARINE MAMMAL CENTER 2000 BUNKER ROAD, FORT CRONKHITE SAUSALITO, CA 94965	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
MARINE SCIENCE INSTITUTE 500 DISCOVERY PARKWAY REDWOOD CITY, CA 94063	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	250.
MARK DAY SCHOOL 39 TRELIS DRIVE SAN RAFAEL, CA 94903	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,700.
MATTHEW SHEPARD FOUNDATION 800 18TH STREET, SUITE 301 DENVER, CO 80202	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
MEDECINS SANS FRONTIERS USA INC. 40 RECTOR STREET, 16TH FLOOR NEW YORK, NY 10006	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	60.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MEMORIAL SLOAN-KETTERING CANCER CENTER 633 THIRD AVENUE, 3RD FLOOR NEW YORK, NY 10017	NONE PC	TO SUPPORT CYCLE FOR SURVIVAL AND TEAM ROZELLESTRONG.	120.
MERCY CORPS PO BOX 2669, DEPT W PORTLAND, OR 97208	NONE PC	IN SUPPORT OF GAZA SKY GEEKS.	1,340.
MESA REFUGE PO BOX 1389 POINT REYES, CA 94956	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
MICHIGAN ENVIRONMENTAL COUNCIL 602 W IONIA STREET LANSING, MI 48933	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
MICHIGAN LEAGUE OF CONSERVATION VOTERS ED. FUND 3029 MILLER ROAD ANN ARBOR, MI 48103	NONE PC	TO SUPPORT THE EDUCATION FUND.	300.
MICKABOO COMPANION BIRD RESCUE PO BOX 697 SAN JOSE, CA 95106	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MILL VALLEY SCHOOLS COMMUNITY FOUNDATION 409 SYCAMORE AVENUE MILL VALLEY, CA 94941-2231	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	24,364.
MINDS MATTER OF SEATTLE INC. 330 N 10TH STREET TACOMA, WA 98403	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
MISSION GRADUATES 3040 16TH STREET SAN FRANCISCO, CA 94103	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	210.
MONTEREY BAY AQUARIUM FOUNDATION 886 CANNERY ROW MONTEREY, CA 93940	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	7,870.
MORELAND EDUCATIONAL FOUNDATION PO BOX 110190 CAMPBELL, CA 95011	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	550.
MOUNTAIN VIEW LOS ALTOS HIGH SCHOOL FOUNDATION PO BOX 1146 LOS ALTOS, CA 940231146	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
MOVEMBER FOUNDATION PO BOX 1595 CULVER CITY, CA 90232	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	612.
MOVEMENT STRATEGY CENTER 436 14TH STREET, 5TH FLOOR OAKLAND, CA 94612	NONE PC	IN SUPPORT OF THE JUSTICE FUNDERS AND THEIR HARMONY CLASS OF 2020 WELCOME.	200.
MPN RESEARCH FOUNDATION 180 N MICHIGAN AVENUE SUITE 1870 CHICAGO, IL 60601	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
MUSEUM OF AMERICAN HERITAGE 351 HOMER AVENUE PALO ALTO, CA 94302	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,500.
NARAL PRO-CHOICE AMERICA FOUNDATION 1156 15TH STREET NW, SUITE 700 WASHINGTON, DC 20005	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
NATIONAL ACADEMY OF SCIENCES 500 5TH STREET NW, KECK 1057 WASHINGTON, DC 20001	NONE PC	IN SUPPORT OF THE MIRZAYAN FELLOWSHIP.	29,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL AUDUBON SOCIETY, INC. 225 VARICK STREET, 7TH FLOOR NEW YORK, NY 10014	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
NATIONAL FIRST RESPONDERS FUND 700 MONTGOMERY STREET SAN FRANCISCO, CA 94111	NONE PC	TO SUPPORT THE SAN FRANCISCO FIRST RESPONDERS STAIR CLIMB.	50.
NATIONAL MULTIPLE SCLEROSIS SOCIETY 733 THIRD AVENUE, 3RD FLOOR NEW YORK, NY 10017	NONE PC	TO SUPPORT CAN 2019 BIKE MS.	200.
NATIONAL MULTIPLE SCLEROSIS SOCIETY 733 THIRD AVENUE, 3RD FLOOR NEW YORK, NY 10017	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
NATIONAL NETWORK OF ABORTION FUNDS PO BOX 7354 ATLANTA, GA 30357	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,296.
NATIONAL WILDLIFE FEDERATION 11100 WILDLIFE CENTER DRIVE RESTON, VA 20190	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NATIONAL WOMENS LAW CENTER 11 DUPONT CIRCLE NW #800 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
NATIVE AMERICAN RIGHTS FUND 1506 BROADWAY BOULDER, CO 80302	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
NATIVE ANIMAL RESCUE 1855 17TH AVENUE SANTA CRUZ, CA 95062	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
NATURAL RESOURCES DEFENSE COUNCIL INC. 40 WEST 20TH STREET NEW YORK, NY 10011	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,606.
NATUREBRIDGE 28 GEARY STREET, SUITE 650 SAN FRANCISCO, CA 94108	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,700.
NEW DOOR VENTURES 3221 20TH STREET SAN FRANCISCO, CA 94110	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
NEW HOPE FOR WOMEN INC. PO BOX A ROCKLAND, ME 04841	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
NEW RIVER CHURCH COMMUNITY INC. 670 LINCOLN AVENUE SUITE 200 SAN JOSE, CA 95126	NONE PC	IN SUPPORT OF THE YOUTH MISSION TRIP FUND.	7,000.
NORTH VALLEY ANIMAL DISASTER GROUP PO BOX 441 CHICO, CA 95927	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
NORTH VALLEY COMMUNITY FOUNDATION 240 MAIN STREET, SUITE 260 CHICO, CA 95928	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
NORTHERN CALIFORNIA ASSOC. OF EQUINE PRACTITIONERS 2995 WOODSIDE ROAD, SUITE 400-333 WOODSIDE, CA 94062	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
OCEANA INC. 1025 CONNECTICUT AVE NW, SUITE 200 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
OFICINA LEGAL DEL PUEBLO UNIDO INC. 1405 MONTOPOLIS DRIVE AUSTIN, TX 78741	NONE PC	TO PROVIDE SUPPORT FOR FAMILIES SEPARATED AT THE BORDER.	100.
ON LOK DAY SERVICES 1333 BUSH STREET SAN FRANCISCO, CA 94109	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
OREGON COMMUNITY FOUNDATION 1221 SW YAMHILL STREET, SUITE 100 PORTLAND, OR 97205	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	20,000.
OREGON STATE UNIVERSITY FOUNDATION 4328 SW RESEARCH WAY CORVALLIS, OR 97333	NONE PC	TO SUPPORT THE COLLEGE OF ENGINEERING STUDENT SUCCESS FUND.	5,000.
PACIFIC COLLEGIATE SCHOOL 3004 MISSION STREET SANTA CRUZ, CA 95060	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,600.
PACIFIC LEGAL FOUNDATION 930 G STREET SACRAMENTO, CA 95814	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PALO ALTO PARTNERS IN EDUCATION PO BOX 1557 PALO ALTO, CA 94302	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,500.
PAN AM HISTORICAL FOUNDATION INC. 1559-B SLOAT BOULEVARD #144 SAN FRANCISCO, CA 94132	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
PANCREATIC CANCER ACTION NETWORK INC. 1500 ROSECRANS AVENUE, SUITE 200 MANHATTAN BEACH, CA 90266	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	80.
PAWS HELPING PEOPLE INC. PO BOX 441 SOQUEL, CA 95073	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
PENINSULA COLLEGE FUND SOBRATO CENTER FOR NONPROFITS 526 VALLEY WAY MILPITAS, CA 95035	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
PENINSULA HUMANE SOCIETY & SPCA 1450 ROLLINS ROAD BURLINGAME, CA 94010	NONE PC	TO SUPPORT THE SPAY/NEUTER CLINIC.	500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PENINSULA OPEN SPACE TRUST 222 HIGH STREET PALO ALTO, CA 94301	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	4,800.
PLANNED PARENTHOOD FEDERATION OF AMERICA, INC. 123 WILLIAM STREET, 10TH FLOOR NEW YORK, NY 10038	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,972.
PLANNED PARENTHOOD MAR MONTE INC. 1691 THE ALAMEDA SAN JOSE, CA 95126	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,000.
POSTON COMMUNITY ALLIANCE INC. 956 HAWTHORNE DRIVE LAFAYETTE, CA 94549	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,000.
PRESIDENT AND FELLOWS OF HARVARD COLLEGE 26 OXFORD STREET CAMBRIDGE, MA 02138	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
PRO PUBLICA INC. 155 AVENUE OF THE AMERICAS 13TH FLOOR NEW YORK, NY 10013	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	120.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 700 MILLER AVENUE MILL VALLEY, CA 94941	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 950 AMARILLO AVENUE PALO ALTO, CA 94303	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	290.
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 425 SYCAMORE AVENUE MILL VALLEY, CA 94941	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	990.
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 408 EAST MEADOW DRIVE PALO ALTO, CA 94306	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	624.
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 251 6TH AVENUE SAN FRANCISCO, CA 94118	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	4,000.
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 360 EAST BLITHEDALE AVENUE C/O PARK SCHOOL MILL VALLEY, CA 94941	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	820.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
PTA CALIFORNIA CONGRESS OF PARENTS TEACHERS & STUD 365 MONROVIA AVENUE LONG BEACH, CA 90803	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	50.
RAPHAEL HOUSE OF SAN FRANCISCO INC. 1065 SUTTER STREET SAN FRANCISCO, CA 94109	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	5,000.
RARE INC. 1310 N COURTHOUSE ROAD, SUITE 110 ARLINGTON, VA 22201	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
REED INSTITUTE 3203 SOUTHEAST WOODSTOCK BOULEVARD PORTLAND, OR 97202	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
REFUGEE AND IMMIGRANT CENTER FOR EDUCATION AND LEG 1305 N FLORES STREET SAN ANTONIO, TX 78212	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	750.
REFUGEE TRANSITIONS 870 MARKET STREET #718 SAN FRANCISCO, CA 94102	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
REGENTS OF THE UNIVERSITY OF MICHIGAN DANA BUILDING, 440 CHURCH STREET ANN ARBOR, MI 48109-1041	NONE GOV	IN SUPPORT OF GENERAL OPERATIONS.	500.
REGENTS OF THE UNIVERSITY OF MICHIGAN 3003 SOUTH STATE STREET ANN ARBOR, MI 48109-1288	NONE GOV	IN SUPPORT OF GENERAL OPERATIONS OF MICHIGAN PUBLIC RADIO.	260.
REGIONAL PARKS FOUNDATION PO BOX 21074, CRESTMONT STATION OAKLAND, CA 94620	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
RESTORE CHILDREN AND FAMILY SERVICES 545 NORTH BAYVIEW AVENUE SUNNYVALE, CA 94085	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	33,400.
RIEKES CENTER FOR HUMAN ENHANCEMENT 3455 EDISON WAY MENLO PARK, CA 94025	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	22,000.
ROY CLOUD SCHOOL PARENTS CLUB 3790 RED OAK WAY REDWOOD CITY, CA 94061	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,890.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SAINT ANDREWS SCHOOL 13601 SARATOGA AVENUE SARATOGA, CA 95070	NONE PC	TO SUPPORT THE IMAGINE THE POSSIBILITIES CAMPAIGN.	3,334.
SAMARITAN HOUSE 4031 PACIFIC BOULEVARD SAN MATEO, CA 94403	NONE PC	IN SUPPORT OF THE 2019 SAMARITAN HOUSE BACKPACK DRIVE.	340.
SAN DIEGO AIR & SPACE MUSEUM 2001 PAN AMERICAN PLAZA SAN DIEGO, CA 92101	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
SAN FRANCISCO AIDS FOUNDATION 1035 MARKET STREET, SUITE 400 SAN FRANCISCO, CA 94103	NONE PC	IN SUPPORT OF AIDS/LIFECYCLE 2019.	300.
SAN FRANCISCO DAY SCHOOL 350 MASONIC AVENUE SAN FRANCISCO, CA 94118	NONE PC	IN SUPPORT OF BREAKTHROUGH SAN FRANCISCO.	1,500.
SAN FRANCISCO DAY SCHOOL 350 MASONIC AVENUE SAN FRANCISCO, CA 94118	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	4,400.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SAN FRANCISCO FORTY-NINERS ACADEMY 2695 FORDHAM STREET EAST PALO ALTO, CA 94303	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
SAN FRANCISCO MUSEUM OF MODERN ART 151 THIRD STREET SAN FRANCISCO, CA 94103-3159	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	300.
SAN FRANCISCO PARKS ALLIANCE 1663 MISSION STREET, SUITE 320 SAN FRANCISCO, CA 94103	NONE PC	TO SUPPORT THE FRIENDS OF WEST PORTAL PLAYGROUND PROJECT.	2,334.
SAN FRANCISCO UNIFIED SCHOOL DISTRICT 500 MANSELL STREET SAN FRANCISCO, CA 94134	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,340.
SAN FRANCISCO ZOOLOGICAL SOCIETY 1 ZOO ROAD SAN FRANCISCO, CA 94132	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	278.
SANDY HOOK PROMISE FOUNDATION PO BOX 3489 NEWTOWN, CT 06470	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	720.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SAVE THE CHILDREN FEDERATION, INC 501 KINGS HIGHWAY EAST SUITE 400 FAIRFIELD, CT 06825	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,564.
SAVE THE REDWOODS LEAGUE 111 SUTTER STREET 11TH FLOOR SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.
SECOND HARVEST FOOD BANK OF SANTA CLARA AND SAN MA 750 CURTNER AVENUE SAN JOSE, CA 95125-2118	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	300.
SECOND HARVEST FOOD BANK SANTA CRUZ COUNTY 800 OHLONE PARKWAY WATSONVILLE, CA 95076	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
SEMPERVIRENS FUND 419 SOUTH SAN ANTONIO ROAD, SUITE 211 LOS ALTOS, CA 94022-3640	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
SERBIAN ORTHODOX DIOCESE OF WESTERN AMERICA 1621 WEST GARVEY AVENUE ALHAMBRA, CA 91803	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
SIERRA WATCH 408 BROAD STREET, SUITE 12 NEVADA CITY, CA 95959	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	500.
SOUTHERN POVERTY LAW CENTER INC. 400 WASHINGTON AVENUE MONTGOMERY, AL 36104	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
ST JUDE CHILDRENS RESEARCH HOSPITAL INC 501 ST. JUDE PLACE MEMPHIS, TN 38105	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
ST. ANDREWS EPISCOPAL CHURCH 13601 SARATOGA AVENUE SARATOGA, CA 95070	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,500.
ST. ARCHANGEL MICHAEL SERBIAN EASTERN ORTHODOX CHU 18870 ALLENDALE AVENUE SARATOGA, CA 95070	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	26,018.
ST. IGNATIUS HIGH SCHOOL OF CLEVELAND 1911 WEST 30TH STREET CLEVELAND, OH 44113	NONE PC	IN SUPPORT OF THE CONOR MURPHY '98 MEMORIAL SCHOLARSHIP.	2,500.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
ST. SAVA MISSION CORPORATION PO BOX 252 JACKSON, CA 95642	NONE PC	IN SUPPORT OF THE ADOPT A DORM PROGRAM.	200.
STARSHIP ORION 555 AVENUE DEL ORA REDWOOD CITY, CA 94062	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
SWIM ACROSS AMERICA, INC. 11600 N COMMUNITY HOUSE ROAD, SUITE 100 CHARLOTTE, NC 28277	NONE PC	IN SUPPORT OF THE FUNDRAISING EFFORTS OF TEAM NBA.	340.
SWIM ACROSS AMERICA, INC. 11600 N COMMUNITY HOUSE ROAD, SUITE 100 CHARLOTTE, NC 28277	NONE PC	IN SUPPORT OF FUNDRAISING EFFORTS OF TEAM ROOT DOWN.	500.
TAHIRIH JUSTICE CENTER 6402 ARLINGTON BOULEVARD SUITE 300 FALLS CHURCH, VA 22042	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	208.
TAM HIGH FOUNDATION 700 MILLER AVENUE MILL VALLEY, CA 94941	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,700.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TAM HIGH FOUNDATION 700 MILLER AVENUE MILL VALLEY, CA 94941	NONE PC	IN SUPPORT OF THE CONSERVATORY THEATER ENSEMBLE.	170.
TAMALPAIS HIGH SCHOOL 700 MILLER AVENUE MILL VALLEY, CA 94941	NONE GOV	TO SUPPORT THE TAM HIGH MOUNTAIN BIKING TEAM.	500.
TAMALPAIS HIGH SCHOOL BOOSTERS CLUB 700 MILLER AVENUE MILL VALLEY, CA 94941	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
TEEN KITCHEN PROJECT PO BOX 1853 SOQUEL, CA 95073	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,000.
TENDERLOIN HOUSING CLINIC INC. 126 HYDE STREET SAN FRANCISCO, CA 94102	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	4,000.
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 326 GALVEZ STREET STANFORD, CA 94305	NONE PC	IN SUPPORT OF THE ENDOWED PROFESSORSHIP FOR THE SCHOOL OF LAW.	40,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE BOARD OF TRUSTEES - LELAND STANFORD JR UNIV. 326 GALVEZ STREET STANFORD, CA 94305	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	6,900.
THE BRANSON SCHOOL PO BOX 887 ROSS, CA 94957	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	11,740.
THE CARTER CENTER INC. ONE COPENHILL 453 FREEDOM PARKWAY ATLANTA, GA 30307	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	250.
THE CHILDRENS HEART FOUNDATION PO BOX 244 LINCOLNSHIRE, IL 60069	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
THE EXPLORATORIUM PIER 17, SUITE 100 SAN FRANCISCO, CA 94111	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	29,896.
THE HILL SCHOOL 860 BEECH STREET POTTSTOWN, PA 19464	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	3,350.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THE MONO LAKE FOUNDATION PO BOX 29 HIGHWAY 395 AND THIRD STREET LEE VINING, CA 93541	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	70.
THE SEEING EYE INC. PO BOX 375 MORRISTOWN, NJ 07963-0375	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
THE TELOS GROUP INC. PO BOX 33248 WASHINGTON, DC 20033	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
THE WILDERNESS SOCIETY 1615 M STREET, NW WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
THERE WITH CARE OF THE BAY AREA 2682 MIDDLEFIELD ROAD, SUITE H REDWOOD CITY, CA 94063	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	100.
THUNDERBIRD LODGE PRESERVATION SOCIETY PO BOX 6812 INCLINE VILLAGE, NV 89450	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,980.



FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
THUNDERBIRD LODGE PRESERVATION SOCIETY PO BOX 6812 INCLINE VILLAGE, NV 89450	NONE PC	TO SUPPORT MUSEUM COLLECTION PRESERVATION PROJECTS.	2,000.
TOGETHER RISING 800 WEST BROAD STREET #6409 FALLS CHURCH, VA 22040	NONE PC	IN SUPPORT OF THE TR4DREAMS CAMPAIGN.	102.
TONY LARUSSAS ANIMAL RESCUE FOUNDATION 2890 MITCHELL DRIVE WALNUT CREEK, CA 94598	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	80.
TRASH FREE MARYLAND 3002 LAUREL AVENUE CHEVERLY, MD 20785	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.
TROUT UNLIMITED 1777 N KENT STREET, SUITE 100 ARLINGTON, VA 22209	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	700.
TRUSTEES OF DARTMOUTH COLLEGE TUCK ANNUAL GIVING 100 TUCK HALL HANOVER, NH 03755	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
TRUSTEES OF PRINCETON UNIVERSITY ONE WASHINGTON ROAD PRINCETON, NJ 08544-2098	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	20,000.
TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA 2929 WALNUT STREET, SUITE 300 PHILADELPHIA, PA 19104-5099	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
TRUSTEES OF TUFTS COLLEGE PO BOX 3306 BOSTON, MA 02241	NONE PC	IN SUPPORT OF THE TUFTS UNIVERSITY SCHOOL OF MEDICINE.	60.
UNITARIAN UNIVERSALIST ASSOCIATION 24 FARNSWORTH STREET BOSTON, MA 02210-1409	NONE PC	TO SUPPORT THE FRIENDS OF THE UUA FUND.	2,000.
UNITED STATES CATHOLIC CONFERENCE 2133 MADISON AVENUE BETHLEHEM, PA 18017	NONE PC	FOR THE 1970 SCHOLARSHIP FUND OR THE FRANCINE FERREIRA SCHOLARSHIP.	200.
UNITED STATES FUND FOR UNICEF 125 MAIDEN LANE NEW YORK, NY 10038	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY CORPORATION AT MONTEREY BAY CSU MONTEREY BAY 100 CAMPUS CENTER SEASIDE, CA 93955	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	400.
UNIVERSITY OF CALIFORNIA BERKELEY FOUNDATION 1995 UNIVERSITY AVENUE, SUITE 401 BERKELEY, CA 94704-1058	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	2,000.
UNIVERSITY OF CALIFORNIA BERKELEY FOUNDATION 1995 UNIVERSITY AVENUE, SUITE 400 BERKELEY, CA 94704	NONE PC	TO SUPPORT THE ENERGY AND RESOURCES GROUP ANNUAL DISCRETIONARY FUND.	700.
UNIVERSITY OF CALIFORNIA SAN FRANCISCO FOUNDATION 220 MONTGOMERY STREET, SUITE 500 SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	600.
UNIVERSITY OF CHICAGO 5235 SOUTH HARPER COURT, 4TH FLOOR CHICAGO, IL 60615	NONE PC	IN SUPPORT OF THE GRADUATE FUND FOR THE HUMANITIES.	300.
UNIVERSITY OF NOTRE DAME DU LAC 1100 GRACE HALL NOTRE DAME, IN 46556	NONE PC	IN SUPPORT OF THE CONOR J. MURPHY SCHOLARSHIP FUND, CLASS OF 2002.	2,400.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
UNIVERSITY OF SOUTHERN CALIFORNIA PO BOX 7913 LOS ANGELES, CA 90007	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
UNIVERSITY OF WISCONSIN FOUNDATION 1848 UNIVERSITY AVENUE MADISON, WI 53726	NONE PC	IN SUPPORT OF THE SIEBEL FAMILY MEN'S BASKETBALL SCHOLARSHIP FUND.	60,000.
VANDERBILT UNIVERSITY 2301 VANDERBILT PLACE NASHVILLE, TN 37240-7727	NONE PC	TO ESTABLISH THE JUSTICE-MOORE FAMILY DEAN'S FACULTY FELLOWSHIP AT THE SCHOOL OF NURSING.	50,000.
VANDERBILT UNIVERSITY 2301 VANDERBILT PLACE NASHVILLE, TN 37240-7727	NONE PC	IN SUPPORT OF THE PERRY E. WALLACE, JR. BASKETBALL SCHOLARSHIP.	2,000.
VANGUARD CHARITABLE ENDOWMENT PROGRAM PO BOX 9509 WARWICK, RI 02889	NONE PC	TO SUPPORT A DONOR ADVISED FUND, REQUESTED BY AN EMPLOYEE OR BOARD MEMBER AS PART OF A MATCHING GIFT OR SERVICE RECOGNITION PROGRAM.	60,000.
VETERANS CAMPAIGN 1608 RHODE ISLAND AVENUE NW SUITE 331 WASHINGTON, DC 20036	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	80.

FORM 990PF, PART XV - GRANTS AND CONTRIBUTIONS PAID DURING THE YEARATTACHMENT 21 (CONT'D)

<u>RECIPIENT NAME AND ADDRESS</u>	<u>RELATIONSHIP TO SUBSTANTIAL CONTRIBUTOR AND FOUNDATION STATUS OF RECIPIENT</u>	<u>PURPOSE OF GRANT OR CONTRIBUTION</u>	<u>AMOUNT</u>
WATERKEEPER ALLIANCE INC. 180 MAIDEN LANE, SUITE 603 NEW YORK, NY 10038	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	10,000.
WIKIMEDIA FOUNDATION INC. 1 MONTGOMERY STREET, SUITE 1600 SAN FRANCISCO, CA 94104	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	220.
WILDLIFE CONSERVATION SOCIETY 2300 SOUTHERN BOULEVARD BRONX, NY 10460	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	1,364.
WORLD WILDLIFE FUND INC. 1250 24TH STREET, NW WASHINGTON, DC 20037	NONE PC	IN SUPPORT OF GENERAL OPERATIONS.	200.
YALE UNIVERSITY 157 CHURCH STREET NEW HAVEN, CT 06510-2100	NONE PC	TO SUPPORT THE YALE SCHOOL OF FORESTRY & ENVIRONMENTAL STUDIES ANNUAL FUND.	100.
		TOTAL CONTRIBUTIONS PAID	<u>298,352,294.</u>