

efile GRAPHIC print - DO NOT PROCESS

As Filed Data -

DLN: 93493211011038

Form 990

Return of Organization Exempt From Income Tax

OMB No 1545-0047

2016

Open to Public Inspection

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

Do not enter social security numbers on this form as it may be made public

Information about Form 990 and its instructions is at [www.irs.gov/form990](#)

Department of the Treasury
Internal Revenue Service

A For the 2016 calendar year, or tax year beginning 10-01-2016 , and ending 09-30-2017

B Check if applicable

☐ Address change

☐ Name change

☐ Initial return

☐ Final

☐ Return/terminated

☐ Amended return

☐ Application pending

C Name of organization

CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

D Employer identification number

95-3972799

E Telephone number

(808) 885-7887

F Name and address of principal officer

NATHAN BROSTROM
65-1120 MAMALAHOA HWY
KAMUELA, HI 96743

G Gross receipts \$ 22,999,772

H(a) Is this a group return for subordinates?

☐ Yes ☒ No

H(b) Are all subordinates included?

☐ Yes ☐ No

If "No," attach a list (see instructions)

H(c) Group exemption number ▶

I Tax-exempt status

☒ 501(c)(3) ☐ 501(c) () ◀(Insert no) ☐ 4947(a)(1) or ☐ 527

J Website: ▶ WWW KECKOBSERVATORY ORG

K Form of organization

☒ Corporation ☐ Trust ☐ Association ☐ Other ▶

L Year of formation 1985

M State of legal domicile CA

Part I Summary

Activities & Governance

1 Briefly describe the organization's mission or most significant activities

SEE SCHEDULE O

2 Check this box ☐ if the organization discontinued its operations or disposed of more than 25% of its net assets

3 Number of voting members of the governing body (Part VI, line 1a)

3 6

4 Number of independent voting members of the governing body (Part VI, line 1b)

4 6

5 Total number of individuals employed in calendar year 2016 (Part V, line 2a)

5 141

6 Total number of volunteers (estimate if necessary)

6 29

7a Total unrelated business revenue from Part VIII, column (C), line 12

7a 0

7b Net unrelated business taxable income from Form 990-T, line 34

7b 0

Revenue

8 Contributions and grants (Part VIII, line 1h)

16,840,148

9 Program service revenue (Part VIII, line 2g)

3,705,445

10 Investment income (Part VIII, column (A), lines 3, 4, and 7d)

-810,605

11 Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)

1,884

12 Total revenue—add lines 8 through 11 (must equal Part VIII, column (A), line 12)

19,736,872

22,532,144

Expenses

13 Grants and similar amounts paid (Part IX, column (A), lines 1–3)

820,870

14 Benefits paid to or for members (Part IX, column (A), line 4)

0

15 Salaries, other compensation, employee benefits (Part IX, column (A), lines 5–10)

13,615,137

13,558,930

16a Professional fundraising fees (Part IX, column (A), line 11e)

0

0

b Total fundraising expenses (Part IX, column (D), line 25) ▶534,357

17 Other expenses (Part IX, column (A), lines 11a–11d, 11f–24e)

9,965,698

10,162,850

18 Total expenses Add lines 13–17 (must equal Part IX, column (A), line 25)

24,401,705

25,554,482

19 Revenue less expenses Subtract line 18 from line 12

-4,664,833

-3,022,338

Net Assets or Fund Balances

20 Total assets (Part X, line 16)

69,880,476

70,473,602

21 Total liabilities (Part X, line 26)

18,909,899

21,342,448

22 Net assets or fund balances Subtract line 21 from line 20

50,970,577

49,131,154

Part II Signature Block

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete Declaration of preparer (other than officer) is based on all information of which preparer has any knowledge

Sign Here

Signature of officer

2018-07-26

Date

NATHAN BROSTROM CARA CFO

Type or print name and title

Paid Preparer Use Only

Print/Type preparer's name

GUY S NISHIHARA

Preparer's signature

GUY S NISHIHARA

Date

2018-07-26

Check ☐ if self-employed

PTIN

P00167026

Firm's name ▶ KKDLY LLC

Firm's EIN ▶ 99-0292355

Firm's address ▶ 745 FORT ST STE 2100

Phone no (808) 521-3962

HONOLULU, HI 96813

May the IRS discuss this return with the preparer shown above? (see instructions)

☐ Yes ☒ No

For Paperwork Reduction Act Notice, see the separate instructions.

Cat No 11282Y

Form 990 (2016)

Part III Statement of Program Service AccomplishmentsCheck if Schedule O contains a response or note to any line in this Part III ☒**1** Briefly describe the organization's mission:

SEE SCHEDULE O

2 Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? ☐ Yes ☒ No

If "Yes," describe these new services on Schedule O

3 Did the organization cease conducting, or make significant changes in how it conducts, any program services? ☐ Yes ☒ No

If "Yes," describe these changes on Schedule O

4 Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.

4a	(Code)	(Expenses \$ 21,492,536	including grants of \$ 1,885,305	(Revenue \$ 3,666,207)
See Additional Data				

4b	(Code)	(Expenses \$ 186,228	including grants of \$)	(Revenue \$ 0)
See Additional Data				

4c	(Code)	(Expenses \$ 38,054	including grants of \$)	(Revenue \$ 38,054)
See Additional Data				

4d	Other program services (Describe in Schedule O)			
	(Expenses \$	including grants of \$	(Revenue \$	)

4e	Total program service expenses ▶	21,716,818
-----------	---	------------

Part IV Checklist of Required Schedules

	Yes	No
1 Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? If "Yes," complete Schedule A 	1 Yes	
2 Is the organization required to complete Schedule B, Schedule of Contributors (see instructions)? 	2 Yes	
3 Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? If "Yes," complete Schedule C, Part I	3	No
4 Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? If "Yes," complete Schedule C, Part II	4	No
5 Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Revenue Procedure 98-19? If "Yes," complete Schedule C, Part III	5	No
6 Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I 	6	No
7 Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II 	7	No
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III 	8	No
9 Did the organization report an amount in Part X, line 21 for escrow or custodial account liability, serve as a custodian for amounts not listed in Part X, or provide credit counseling, debt management, credit repair, or debt negotiation services? If "Yes," complete Schedule D, Part IV 	9	No
10 Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent endowments, or quasi-endowments? If "Yes," complete Schedule D, Part V 	10	No
11 If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X as applicable		
a Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI 	11a Yes	
b Did the organization report an amount for investments—other securities in Part X, line 12 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII 	11b Yes	
c Did the organization report an amount for investments—program related in Part X, line 13 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII 	11c	No
d Did the organization report an amount for other assets in Part X, line 15 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part IX 	11d	No
e Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X 	11e	No
f Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X 	11f Yes	
12a Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI and XII 	12a Yes	
b Was the organization included in consolidated, independent audited financial statements for the tax year? If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional 	12b	No
13 Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	13	No
14a Did the organization maintain an office, employees, or agents outside of the United States?	14a	No
b Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000 or more? If "Yes," complete Schedule F, Parts I and IV 	14b Yes	
15 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? If "Yes," complete Schedule F, Parts II and IV 	15	No
16 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV 	16	No
17 Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I (see instructions)	17	No
18 Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If "Yes," complete Schedule G, Part II	18	No
19 Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes," complete Schedule G, Part III	19	No

Part IV Checklist of Required Schedules (continued)

	Yes	No
20a Did the organization operate one or more hospital facilities? <i>If "Yes," complete Schedule H</i>		No
b If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?		
21 Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? <i>If "Yes," complete Schedule I, Parts I and II</i>	Yes	
22 Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>		No
23 Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i>	Yes	
24a Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a</i>		No
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?		
c Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?		
d Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?		
25a Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I</i>		No
b Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I</i>		No
26 Did the organization report any amount on Part X, line 5, 6, or 22 for receivables from or payables to any current or former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? <i>If "Yes," complete Schedule L, Part II</i>		No
27 Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i>		No
28 Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV instructions for applicable filing thresholds, conditions, and exceptions)		
a A current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>		No
b A family member of a current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>		No
c An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer, director, trustee, or direct or indirect owner? <i>If "Yes," complete Schedule L, Part IV</i>		No
29 Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i>	Yes	
30 Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>		No
31 Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>		No
32 Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i>		No
33 Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? <i>If "Yes," complete Schedule R, Part I</i>		No
34 Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1</i>		No
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?		No
b If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i>		
36 Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>		No
37 Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i>		No
38 Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19? Note. All Form 990 filers are required to complete Schedule O	Yes	

Part V Statements Regarding Other IRS Filings and Tax ComplianceCheck if Schedule O contains a response or note to any line in this Part V ☐

		Yes	No
1a	Enter the number reported in Box 3 of Form 1096 Enter -0- if not applicable	1a	32
b	Enter the number of Forms W-2G included in line 1a Enter -0- if not applicable	1b	0
c	Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?	1c	Yes
2a	Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements, filed for the calendar year ending with or within the year covered by this return	2a	141
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns? Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)	2b	Yes
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a	No
b	If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation in Schedule O	3b	
4a	At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?	4a	No
b	If "Yes," enter the name of the foreign country ▶ _____ See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR)		
5a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a	No
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b	No
c	If "Yes," to line 5a or 5b, did the organization file Form 8886-T?	5c	
6a	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible as charitable contributions?	6a	No
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	6b	
7	Organizations that may receive deductible contributions under section 170(c).		
a	Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?	7a	No
b	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b	
c	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?	7c	No
d	If "Yes," indicate the number of Forms 8282 filed during the year	7d	
e	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e	No
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f	No
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g	No
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h	No
8	Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintained by the sponsoring organization have excess business holdings at any time during the year?	8	
9a	Did the sponsoring organization make any taxable distributions under section 4966?	9a	
b	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?	9b	
10	Section 501(c)(7) organizations. Enter		
a	Initiation fees and capital contributions included on Part VIII, line 12	10a	
b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities	10b	
11	Section 501(c)(12) organizations. Enter		
a	Gross income from members or shareholders	11a	
b	Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them)	11b	
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a	
b	If "Yes," enter the amount of tax-exempt interest received or accrued during the year	12b	
13	Section 501(c)(29) qualified nonprofit health insurance issuers.		
a	Is the organization licensed to issue qualified health plans in more than one state? Note. See the instructions for additional information the organization must report on Schedule O	13a	
b	Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans	13b	
c	Enter the amount of reserves on hand	13c	
14a	Did the organization receive any payments for indoor tanning services during the tax year?	14a	No
b	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedule O	14b	

Part VI Governance, Management, and Disclosure For each "Yes" response to lines 2 through 7b below, and for a "No" response to lines 8a, 8b, or 10b below, describe the circumstances, processes, or changes in Schedule O. See instructions.

Check if Schedule O contains a response or note to any line in this Part VI ☒

Section A. Governing Body and Management

		Yes	No
1a	Enter the number of voting members of the governing body at the end of the tax year	6	
	If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain in Schedule O		
b	Enter the number of voting members included in line 1a, above, who are independent	6	
2	Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee?	Yes	
3	Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors or trustees, or key employees to a management company or other person?		No
4	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?		No
5	Did the organization become aware during the year of a significant diversion of the organization's assets?		No
6	Did the organization have members or stockholders?		No
7a	Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body?	Yes	
b	Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?		No
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:		
a	The governing body?	Yes	
b	Each committee with authority to act on behalf of the governing body?	Yes	
9	Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses in Schedule O		No

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

		Yes	No
10a	Did the organization have local chapters, branches, or affiliates?		No
b	If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes?		
11a	Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?	Yes	
b	Describe in Schedule O the process, if any, used by the organization to review this Form 990		
12a	Did the organization have a written conflict of interest policy? If "No," go to line 13	Yes	
b	Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	Yes	
c	Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this was done	Yes	
13	Did the organization have a written whistleblower policy?		No
14	Did the organization have a written document retention and destruction policy?		No
15	Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision?		
a	The organization's CEO, Executive Director, or top management official	Yes	
b	Other officers or key employees of the organization	Yes	
	If "Yes" to line 15a or 15b, describe the process in Schedule O (see instructions)		
16a	Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year?		No
b	If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements?		

Section C. Disclosure

17 List the States with which a copy of this Form 990 is required to be filed: CA, HI, WA, MD, AK

18 Section 6104 requires an organization to make its Form 1023 (or 1024 if applicable), 990, and 990-T (501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.
☐ Own website ☐ Another's website ☒ Upon request ☐ Other (explain in Schedule O)

19 Describe in Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year.

20 State the name, address, and telephone number of the person who possesses the organization's books and records.
 ► CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY 65-1120 MAMALAHOA HWY KAMUELA, HI 96743 (808) 885-7887

Part VII

Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent Contractors

Check if Schedule O contains a response or note to any line in this Part VII

☐

Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

1a Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
- List all of the organization's **current** key employees, if any. See instructions for definition of "key employee."
- List the organization's five **current** highest compensated employees (other than an officer, director, trustee or key employee) who received reportable compensation (Box 5 of Form W-2 and/or Box 7 of Form 1099-MISC) of more than \$100,000 from the organization and any related organizations.
- List all of the organization's **former** officers, key employees, or highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
- List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

List persons in the following order: individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons.

☐ Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee

(A) Name and Title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional Trustee	Officer	Key employee	Highest compensated employee	Former			
(1) DR GEORGE BLUMENTHAL CHAIRMAN	2.00	X						0	0	0
(2) DR ED STOLPER VICE-CHAIRMAN	2.00	X						0	0	0
(3) DR AIMEE DORR BOARD MEMBER	2.00	X						0	0	0
(4) DR SHRINIVAS KULKARNI BOARD MEMBER	2.00	X						0	0	0
(5) DR CLAIRE MAX BOARD MEMBER	2.00	X						0	0	0
(6) DR FIONA HARRISON BOARD MEMBER	2.00	X						0	0	0
(7) MR NATHAN BROSTROM CHIEF FINANCIAL OFFICER	1.00			X				0	0	0
(8) MS ELAINE STAMMAN SECRETARY	4.00			X				10,246	0	784
(9) MR HILTON LEWIS OBSERVATORY DIRECTOR	50.00			X				275,082	0	70,869
(10) MR RICHARD MATSUDA CHIEF OF OPERATIONS	50.00				X			194,253	0	50,342
(11) DR PETER WIZINOWICH OPTICS ENGINEERING MANAGER	50.00				X			194,220	0	53,489
(12) MS MARGARITA SCHEFFEL OBSERVATORY CFO	50.00				X			188,595	0	55,045
(13) DR ANNE KINNEY CHIEF SCIENTIST	50.00				X			212,315	0	43,520
(14) MR SEAN ADKINS INSTRUMENT PROGRAM MANAGER	50.00					X		151,903	0	33,406
(15) MR KEVIN MCCANN SOFTWARE ENGINEERING MANAG	50.00					X		184,865	0	56,762
(16) MR DENNIS MCBRIDE PRINCIPAL ENGINEER	50.00					X		170,924	0	29,632
(17) MR JASON CHIN SENIOR OPTICS ENGINEER	50.00					X		162,751	0	44,880

Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)

(A) Name and Title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional Trustee	Officer	Key employee	Highest compensated employee	Former			
(18) MR KEVIN TSUBOTA SENIOR SOFTWARE ENGINEER	50 00					X		150,785	0	38,672
1b Sub-Total										
c Total from continuation sheets to Part VII, Section A										
d Total (add lines 1b and 1c)								1,895,939	0	477,401

2 Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization ► 10

	Yes	No
3 Did the organization list any former officer, director or trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i>		No
4 For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? <i>If "Yes," complete Schedule J for such individual</i>	Yes	
5 Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? <i>If "Yes," complete Schedule J for such person</i>		No

Section B. Independent Contractors

1 Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	(C) Compensation
SAKODA CONSTRUCTION LLC 272 LUAKAHA STREET HILO, HI 96720	CONSTRUCTION OF SEGMENT REPAIR LAB	509,559
MAUNA KEA OBSERVATORY SUPPORT 177 MAKAAALA STREET HILO, HI 96720	MAUNA KEA FACILITY AND SUPPORT SERVICES	445,062
SIMPSON GUMPERTZ & HEGER INC 41 SEYON STREET SUITE 500 WALTHAM, MA 02453	SPARE SECONDARY MIRROR FABRICATION	170,000
SOUTHWEST METALCRAFTS CORPORATION 21 W 22RD STREET TUCSON, AZ 85713	VARIOUS EQUIPMENT FABRICATIONS	137,518
SCHOTT NORTH AMERICA INC 400 YORK AVENUE DURIEA, PA 18642	MIRROR SEGMENT ANALYSIS & STORAGE	134,500

2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 of compensation from the organization ► 5

Part VIII **Statement of Revenue**

Check if Schedule O contains a response or note to any line in this Part VIII ☐

**Contributions, Gifts, Grants
and Other Similar Amounts**

1a Federated campaigns . . .	1a	
b Membership dues . . .	1b	
c Fundraising events . . .	1c	
d Related organizations	1d	
e Government grants (contributions)	1e	1,320,679
f All other contributions, gifts, grants, and similar amounts not included above	1f	17,271,360
g Noncash contributions included in lines 1a-1f \$ _____		
h Total. Add lines 1a-1f		18,592,039

(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512-514
----------------------	--	---	--

Program Service Revenue

2a NASA COOPERATIVE AGREEMENT	Business Code				
b VISITING SCIENCE QUARTERS	541712	3,575,000	3,575,000		
c MISC FEDERAL RESEARCH GRANTS	541712	91,207	91,207		
d KECK LOGO MERCHANDISE	541712	38,054	38,054		
e SUMMIT TOURS FEE OFFSET	900099	22,665			22,665
f All other program service revenue	900099	2,280			2,280
g Total. Add lines 2a-2f		3,729,206			

Other Revenue

3 Investment income (including dividends, interest, and other similar amounts)		222,766			222,766
4 Income from investment of tax-exempt bond proceeds					
5 Royalties					
6a Gross rents	(i) Real	(ii) Personal			
b Less rental expenses					
c Rental income or (loss)					
d Net rental income or (loss)					
7a Gross amount from sales of assets other than inventory	(i) Securities	(ii) Other			
b Less cost or other basis and sales expenses	429,254	25,500			
c Gain or (loss)	442,785	24,843			
d Net gain or (loss)	-13,531	657			
8a Gross income from fundraising events (not including \$ _____ of contributions reported on line 1c) See Part IV, line 18	a				
b Less direct expenses	b				
c Net income or (loss) from fundraising events					
9a Gross income from gaming activities See Part IV, line 19	a				
b Less direct expenses	b				
c Net income or (loss) from gaming activities					
10a Gross sales of inventory, less returns and allowances	a				
b Less cost of goods sold	b				
c Net income or (loss) from sales of inventory					
Miscellaneous Revenue	Business Code				
11a EMPLOYEE EQUIPMENT SALES	900099	885			885
b IMAGE FEE	900099	122			122
c					
d All other revenue					
e Total. Add lines 11a-11d		1,007			
12 Total revenue. See Instructions		22,532,144	3,704,261	0	235,844

Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX ☐

	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.				
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21.	1,832,702	1,832,702		
2 Grants and other assistance to domestic individuals. See Part IV, line 22.				
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, line 15 and 16.				
4 Benefits paid to or for members.				
5 Compensation of current officers, directors, trustees, and key employees.	1,450,031	374,978	1,037,932	37,121
6 Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B).				
7 Other salaries and wages.	9,018,415	6,944,447	1,876,941	197,027
8 Pension plan accruals and contributions (include section 401 (k) and 403(b) employer contributions).	784,263	603,906	163,223	17,134
9 Other employee benefits.	1,552,167	1,195,215	323,042	33,910
10 Payroll taxes.	754,054	580,644	156,936	16,474
11 Fees for services (non-employees):				
a Management.				
b Legal.	13,582		13,582	
c Accounting.	60,426		60,426	
d Lobbying.				
e Professional fundraising services. See Part IV, line 17.				
f Investment management fees.				
g Other (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O).	661,317	350,830	201,360	109,127
12 Advertising and promotion.				
13 Office expenses.	178,140	57,742	103,015	17,383
14 Information technology.	391,652	38,255	351,291	2,106
15 Royalties.				
16 Occupancy.	1,459,190	1,209,612	249,578	
17 Travel.	460,708	234,552	166,193	59,963
18 Payments of travel or entertainment expenses for any federal, state, or local public officials.				
19 Conferences, conventions, and meetings.	218,526	23,358	154,482	40,686
20 Interest.				
21 Payments to affiliates.				
22 Depreciation, depletion, and amortization.	7,124,534	6,992,172	132,362	
23 Insurance.	205,313	185,454	19,859	
24 Other expenses. Itemize expenses not covered above (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O):				
a EQUIPMENT & TOOLS	760,496	710,634	49,862	
b EQUIP RENTAL & MAINTENANCE	715,183	673,182	38,575	3,426
c INDIRECT COST RECOVERY	-250,480	1,544,872	-1,795,352	
d CAPITAL SUBCONTRACTS	-1,835,737	-1,835,737		
e All other expenses				
25 Total functional expenses. Add lines 1 through 24e.	25,554,482	21,716,818	3,303,307	534,357
26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here ☐ if following SOP 98-2 (ASC 958-720).				

Part X Balance SheetCheck if Schedule O contains a response or note to any line in this Part IX ☐

				(A) Beginning of year		(B) End of year	
Assets	1	Cash—non-interest-bearing		1,028	1	600	
	2	Savings and temporary cash investments		11,943,012	2	8,957,430	
	3	Pledges and grants receivable, net		100,201	3	489,816	
	4	Accounts receivable, net		430,542	4	245,936	
	5	Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L.			5		
	6	Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing employers and sponsoring organizations of section 501(c)(9) voluntary employees' beneficiary organizations (see instructions). Complete Part II of Schedule L.			6		
	7	Notes and loans receivable, net			7		
	8	Inventories for sale or use			8		
	9	Prepaid expenses and deferred charges		342,040	9	496,623	
	10a	Land, buildings, and equipment—cost or other basis. Complete Part VI of Schedule D.	10a	128,384,524			
	b	Less: accumulated depreciation	10b	80,443,716	49,872,715	10c	47,940,808
	11	Investments—publicly traded securities			11		
	12	Investments—other securities. See Part IV, line 11		7,190,938	12	12,342,389	
	13	Investments—program-related. See Part IV, line 11			13		
	14	Intangible assets			14		
	15	Other assets. See Part IV, line 11			15		
16	Total assets. Add lines 1 through 15 (must equal line 34)		69,880,476	16	70,473,602		
Liabilities	17	Accounts payable and accrued expenses		3,239,559	17	3,212,218	
	18	Grants payable			18		
	19	Deferred revenue		15,670,340	19	18,130,230	
	20	Tax-exempt bond liabilities			20		
	21	Escrow or custodial account liability. Complete Part IV of Schedule D.			21		
	22	Loans and other payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L			22		
	23	Secured mortgages and notes payable to unrelated third parties			23		
	24	Unsecured notes and loans payable to unrelated third parties			24		
	25	Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17-24). Complete Part X of Schedule D.			25		
	26	Total liabilities. Add lines 17 through 25		18,909,899	26	21,342,448	
Net Assets or Fund Balances	Organizations that follow SFAS 117 (ASC 958), check here ☒ and complete lines 27 through 29, and lines 33 and 34.						
	27	Unrestricted net assets		50,383,516	27	48,557,847	
	28	Temporarily restricted net assets		587,061	28	573,307	
	29	Permanently restricted net assets			29		
	Organizations that do not follow SFAS 117 (ASC 958), check here ☐ and complete lines 30 through 34.						
	30	Capital stock or trust principal, or current funds			30		
	31	Paid-in or capital surplus, or land, building or equipment fund			31		
	32	Retained earnings, endowment, accumulated income, or other funds			32		
33	Total net assets or fund balances		50,970,577	33	49,131,154		
34	Total liabilities and net assets/fund balances		69,880,476	34	70,473,602		

Part XI Reconciliation of Net AssetsCheck if Schedule O contains a response or note to any line in this Part XI ☐

1	Total revenue (must equal Part VIII, column (A), line 12)	1	22,532,144
2	Total expenses (must equal Part IX, column (A), line 25)	2	25,554,482
3	Revenue less expenses Subtract line 2 from line 1	3	-3,022,338
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	50,970,577
5	Net unrealized gains (losses) on investments	5	1,182,915
6	Donated services and use of facilities	6	
7	Investment expenses	7	
8	Prior period adjustments	8	
9	Other changes in net assets or fund balances (explain in Schedule O)	9	0
10	Net assets or fund balances at end of year Combine lines 3 through 9 (must equal Part X, line 33, column (B))	10	49,131,154

Part XII Financial Statements and ReportingCheck if Schedule O contains a response or note to any line in this Part XII ☒

	Yes	No
1 Accounting method used to prepare the Form 990 ☐ Cash ☒ Accrual ☐ Other _____ If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule O		
2a Were the organization's financial statements compiled or reviewed by an independent accountant? If 'Yes,' check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both ☐ Separate basis ☐ Consolidated basis ☐ Both consolidated and separate basis		No
b Were the organization's financial statements audited by an independent accountant? If 'Yes,' check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both ☒ Separate basis ☐ Consolidated basis ☐ Both consolidated and separate basis	Yes	
c If "Yes," to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O	Yes	
3a As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133?	Yes	
b If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why in Schedule O and describe any steps taken to undergo such audits	Yes	

Additional Data

Software ID:
Software Version:
EIN: 95-3972799
Name: CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Form 990 (2016)

Form 990, Part III, Line 4a:

SEE SCHEDULE O

Form 990, Part III, Line 4b:

PUBLIC INFORMATION EACH YEAR, KECK OBSERVATORY SPONSORS DOZENS OF EDUCATION PROGRAMS, PUBLIC LECTURES AND PODCASTS FOR HAWAII ISLAND FAMILIES, EDUCATORS, AND STUDENTS TO FOSTER A GREATER APPRECIATION OF SCIENCE AND ITS MANY CONTRIBUTIONS TO SOCIETY ON A GLOBAL LEVEL, THE OBSERVATORY HAS A SUPPORT BASE OF OVER 800 FRIENDS OF KECK AND A SUBSCRIBED FAN BASE OF NEARLY 20,000 ASTRONOMY PROFESSIONALS AND ENTHUSIASTS, AND WELCOMES VISITORS TO ITS HEADQUARTERS FACILITY IN KAMUELA AND TO ITS SUMMIT FACILITY FOR A FIRST-HAND VIEW OF THE KECK TELESCOPES ON MAUNA KEA

Form 990, Part III, Line 4c:

RESEARCH KECK OBSERVATORY'S ACTIVITIES INCLUDE SUBMITTING GRANT PROPOSALS TO CARRY OUT SPECIFIC RESEARCH PROJECTS

SCHEDULE A
(Form 990 or 990-EZ)

Department of the Treasury
Internal Revenue Service

Public Charity Status and Public Support
Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.
▶ Attach to Form 990 or Form 990-EZ.
▶ Information about Schedule A (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.

OMB No 1545-0047
2016
Open to Public Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

Part I Reason for Public Charity Status (All organizations must complete this part.) See instructions.
The organization is not a private foundation because it is (For lines 1 through 12, check only one box)

- 1

☐

A church, convention of churches, or association of churches described in **section 170(b)(1)(A)(i)**.
- 2

☐

A school described in **section 170(b)(1)(A)(ii)**. (Attach Schedule E (Form 990 or 990-EZ))
- 3

☐

A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii)**.
- 4

☐

A medical research organization operated in conjunction with a hospital described in **section 170(b)(1)(A)(iii)**. Enter the hospital's name, city, and state _____
- 5

☐

An organization operated for the benefit of a college or university owned or operated by a governmental unit described in **section 170(b)(1)(A)(iv)**. (Complete Part II)
- 6

☐

A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v)**.
- 7

☒

An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in **section 170(b)(1)(A)(vi)**. (Complete Part II)
- 8

☐

A community trust described in **section 170(b)(1)(A)(vi)** (Complete Part II)
- 9

☐

An agricultural research organization described in **170(b)(1)(A)(ix)** operated in conjunction with a land-grant college or university or a non-land grant college of agriculture See instructions Enter the name, city, and state of the college or university _____
- 10

☐

An organization that normally receives (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions—subject to certain exceptions, and (2) no more than 33 1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975 See **section 509(a)(2)**. (Complete Part III)
- 11

☐

An organization organized and operated exclusively to test for public safety See **section 509(a)(4)**.
- 12

☐

An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in **section 509(a)(1)** or **section 509(a)(2)**. See **section 509(a)(3)**. Check the box in lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g
- a

☐

Type I. A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization **You must complete Part IV, Sections A and B.**
- b

☐

Type II. A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s) **You must complete Part IV, Sections A and C.**
- c

☐

Type III functionally integrated. A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions) **You must complete Part IV, Sections A, D, and E.**
- d

☐

Type III non-functionally integrated. A supporting organization operated in connection with its supported organization(s) that is not functionally integrated The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions) **You must complete Part IV, Sections A and D, and Part V.**
- e

☐

Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization
- f

Enter the number of supported organizations _____
- g

Provide the following information about the supported organization(s) _____

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1- 10 above (see instructions))	(iv) Is the organization listed in your governing document?		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)
			Yes	No		
Total						

Part II

Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)
(Complete only if you checked the box on line 5, 7, 8, or 9 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

Calendar year (or fiscal year beginning in) ▶	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(f)Total
1 Gifts, grants, contributions, and membership fees received (Do not include any "unusual grant.")	15,381,241	16,595,653	19,451,800	16,869,669	18,592,039	86,890,402
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge						
4 Total. Add lines 1 through 3	15,381,241	16,595,653	19,451,800	16,869,669	18,592,039	86,890,402
5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f)						6,975,247
6 Public support. Subtract line 5 from line 4						79,915,155

Section B. Total Support

Calendar year (or fiscal year beginning in) ▶	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(f)Total
7 Amounts from line 4	15,381,241	16,595,653	19,451,800	16,869,669	18,592,039	86,890,402
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources	251,861	338,851	208,072	183,034	222,766	1,204,584
9 Net income from unrelated business activities, whether or not the business is regularly carried on	-158,878					-158,878
10 Other income Do not include gain or loss from the sale of capital assets (Explain in Part VI.)	186,732	145,226	179,708	1,884	1,007	514,557
11 Total support. Add lines 7 through 10						88,450,665
12 Gross receipts from related activities, etc. (see instructions)					12	19,301,524
13 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here ▶ ☐						

Section C. Computation of Public Support Percentage

14 Public support percentage for 2016 (line 6, column (f) divided by line 11, column (f))	14	90.350 %
15 Public support percentage for 2015 Schedule A, Part II, line 14	15	91.480 %

16a 33 1/3% support test—2016. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization ▶ ☒

b 33 1/3% support test—2015. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization ▶ ☐

17a 10%-facts-and-circumstances test—2016. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization ▶ ☐

b 10%-facts-and-circumstances test—2015. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization ▶ ☐

18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions ▶ ☐

Schedule A (Form 990 or 990-EZ) 2016

Part III Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II. If the organization fails to qualify under the tests listed below, please complete Part II.)

Section A. Public Support

Calendar year (or fiscal year beginning in) ►	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(f)Total
1 Gifts, grants, contributions, and membership fees received (Do not include any "unusual grants.")						
2 Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose						
3 Gross receipts from activities that are not an unrelated trade or business under section 513						
4 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
5 The value of services or facilities furnished by a governmental unit to the organization without charge						
6 Total. Add lines 1 through 5						
7a Amounts included on lines 1, 2, and 3 received from disqualified persons						
b Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the amount on line 13 for the year						
c Add lines 7a and 7b						
8 Public support. (Subtract line 7c from line 6.)						

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a)2012	(b)2013	(c)2014	(d)2015	(e)2016	(f)Total
9 Amounts from line 6						
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources						
b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975						
c Add lines 10a and 10b						
11 Net income from unrelated business activities not included in line 10b, whether or not the business is regularly carried on						
12 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
13 Total support. (Add lines 9, 10c, 11, and 12.)						

14 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and **stop here** ► ☐

Section C. Computation of Public Support Percentage

15 Public support percentage for 2016 (line 8, column (f) divided by line 13, column (f))	15	
16 Public support percentage from 2015 Schedule A, Part III, line 15	16	

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2016 (line 10c, column (f) divided by line 13, column (f))	17	
18 Investment income percentage from 2015 Schedule A, Part III, line 17	18	

19a 33 1/3% support tests—2016. If the organization did not check the box on line 14, and line 15 is more than 33 1/3%, and line 17 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ► ☐

b 33 1/3% support tests—2015. If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33 1/3% and line 18 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization ► ☐

20 Private foundation. If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions ► ☐

Part IV Supporting Organizations

(Complete only if you checked a box on line 12 of Part I. If you checked 12a of Part I, complete Sections A and B. If you checked 12b of Part I, complete Sections A and C. If you checked 12c of Part I, complete Sections A, D, and E. If you checked 12d of Part I, complete Sections A and D, and complete Part V.)

Section A. All Supporting Organizations

	Yes	No
1 Are all of the organization's supported organizations listed by name in the organization's governing documents? <i>If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain.</i>	1	
2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>	2	
3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer (b) and (c) below.</i>	3a	
b Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>	3b	
c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>	3c	
4a Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes" and if you checked 12a or 12b in Part I, answer (b) and (c) below.</i>	4a	
b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.</i>	4b	
c Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? <i>If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes.</i>	4c	
5a Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer (b) and (c) below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed, (ii) the reasons for each such action, (iii) the authority under the organization's organizing document authorizing such action, and (iv) how the action was accomplished (such as by amendment to the organizing document).</i>	5a	
b Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?	5b	
c Substitutions only. Was the substitution the result of an event beyond the organization's control?	5c	
6 Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? <i>If "Yes," provide detail in Part VI.</i>	6	
7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>	7	
8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>	8	
9a Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? <i>If "Yes," provide detail in Part VI.</i>	9a	
b Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? <i>If "Yes," provide detail in Part VI.</i>	9b	
c Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? <i>If "Yes," provide detail in Part VI.</i>	9c	
10a Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? <i>If "Yes," answer line 10b below.</i>	10a	
b Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>	10b	

Part IV Supporting Organizations (continued)

	Yes	No
11 Has the organization accepted a gift or contribution from any of the following persons?		
a A person who directly or indirectly controls, either alone or together with persons described in (b) and (c) below, the governing body of a supported organization?		
b A family member of a person described in (a) above?		
c A 35% controlled entity of a person described in (a) or (b) above? <i>If "Yes" to a, b, or c, provide detail in Part VI</i>		
11a		
11b		
11c		

Section B. Type I Supporting Organizations

	Yes	No
1 Did the directors, trustees, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's directors or trustees at all times during the tax year? <i>If "No," describe in Part VI how the supported organization(s) effectively operated, supervised, or controlled the organization's activities. If the organization had more than one supported organization, describe how the powers to appoint and/or remove directors or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.</i>		
1		
2 Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization? <i>If "Yes," explain in Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated, supervised or controlled the supporting organization.</i>		
2		

Section C. Type II Supporting Organizations

	Yes	No
1 Were a majority of the organization's directors or trustees during the tax year also a majority of the directors or trustees of each of the organization's supported organization(s)? <i>If "No," describe in Part VI how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s).</i>		
1		

Section D. All Type III Supporting Organizations

	Yes	No
1 Did the organization provide to each of its supported organizations, by the last day of the fifth month of the organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the organization's governing documents in effect on the date of notification, to the extent not previously provided?		
1		
2 Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported organization(s) or (ii) serving on the governing body of a supported organization? <i>If "No," explain in Part VI how the organization maintained a close and continuous working relationship with the supported organization(s).</i>		
2		
3 By reason of the relationship described in (2), did the organization's supported organizations have a significant voice in the organization's investment policies and in directing the use of the organization's income or assets at all times during the tax year? <i>If "Yes," describe in Part VI the role the organization's supported organizations played in this regard.</i>		
3		

Section E. Type III Functionally-Integrated Supporting Organizations

1 Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions)		
a ☐ The organization satisfied the Activities Test. Complete line 2 below.		
b ☐ The organization is the parent of each of its supported organizations. Complete line 3 below.		
c ☐ The organization supported a governmental entity. Describe in Part VI how you supported a government entity (see instructions).		
2 Activities Test Answer (a) and (b) below.		
a Did substantially all of the organization's activities during the tax year directly further the exempt purposes of the supported organization(s) to which the organization was responsive? <i>If "Yes," then in Part VI identify those supported organizations and explain how these activities directly furthered their exempt purposes, how the organization was responsive to those supported organizations, and how the organization determined that these activities constituted substantially all of its activities.</i>		
2a		
b Did the activities described in (a) constitute activities that, but for the organization's involvement, one or more of the organization's supported organization(s) would have been engaged in? <i>If "Yes," explain in Part VI the reasons for the organization's position that its supported organization(s) would have engaged in these activities but for the organization's involvement.</i>		
2b		
3 Parent of Supported Organizations Answer (a) and (b) below.		
a Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or trustees of each of the supported organizations? <i>Provide details in Part VI.</i>		
3a		
b Did the organization exercise a substantial degree of direction over the policies, programs and activities of each of its supported organizations? <i>If "Yes," describe in Part VI the role played by the organization in this regard.</i>		
3b		

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

- 1** ☐ Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970. **See instructions.** All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

Section A - Adjusted Net Income

	(A) Prior Year	(B) Current Year (optional)
1 Net short-term capital gain	1	
2 Recoveries of prior-year distributions	2	
3 Other gross income (see instructions)	3	
4 Add lines 1 through 3	4	
5 Depreciation and depletion	5	
6 Portion of operating expenses paid or incurred for production or collection of gross income or for management, conservation, or maintenance of property held for production of income (see instructions)	6	
7 Other expenses (see instructions)	7	
8 Adjusted Net Income (subtract lines 5, 6 and 7 from line 4)	8	

Section B - Minimum Asset Amount

	(A) Prior Year	(B) Current Year (optional)
1 Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year)	1	
a Average monthly value of securities	1a	
b Average monthly cash balances	1b	
c Fair market value of other non-exempt-use assets	1c	
d Total (add lines 1a, 1b, and 1c)	1d	
e Discount claimed for blockage or other factors (explain in detail in Part VI)		
2 Acquisition indebtedness applicable to non-exempt use assets	2	
3 Subtract line 2 from line 1d	3	
4 Cash deemed held for exempt use. Enter 1-1/2% of line 3 (for greater amount, see instructions)	4	
5 Net value of non-exempt-use assets (subtract line 4 from line 3)	5	
6 Multiply line 5 by .035	6	
7 Recoveries of prior-year distributions	7	
8 Minimum Asset Amount (add line 7 to line 6)	8	

Section C - Distributable Amount

		Current Year
1 Adjusted net income for prior year (from Section A, line 8, Column A)	1	
2 Enter 85% of line 1	2	
3 Minimum asset amount for prior year (from Section B, line 8, Column A)	3	
4 Enter greater of line 2 or line 3	4	
5 Income tax imposed in prior year	5	
6 Distributable Amount. Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions)	6	
7 ☐ Check here if the current year is the organization's first as a non-functionally-integrated Type III supporting organization (see instructions)		

Part V

Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations (continued)

Section D - Distributions	Current Year
1 Amounts paid to supported organizations to accomplish exempt purposes	
2 Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity	
3 Administrative expenses paid to accomplish exempt purposes of supported organizations	
4 Amounts paid to acquire exempt-use assets	
5 Qualified set-aside amounts (prior IRS approval required)	
6 Other distributions (describe in Part VI) See instructions	
7 Total annual distributions. Add lines 1 through 6	
8 Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI) See instructions	
9 Distributable amount for 2016 from Section C, line 6	
10 Line 8 amount divided by Line 9 amount	

Section E - Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2016	(iii) Distributable Amount for 2016
1 Distributable amount for 2016 from Section C, line 6			
2 Underdistributions, if any, for years prior to 2016 (reasonable cause required--see instructions)			
3 Excess distributions carryover, if any, to 2016			
a			
b			
c From 2013.			
d From 2014.			
e From 2015.			
f Total of lines 3a through e			
g Applied to underdistributions of prior years			
h Applied to 2016 distributable amount			
i Carryover from 2011 not applied (see instructions)			
j Remainder Subtract lines 3g, 3h, and 3i from 3f			
4 Distributions for 2016 from Section D, line 7 \$			
a Applied to underdistributions of prior years			
b Applied to 2016 distributable amount			
c Remainder Subtract lines 4a and 4b from 4			
5 Remaining underdistributions for years prior to 2016, if any Subtract lines 3g and 4a from line 2 (if amount greater than zero, see instructions)			
6 Remaining underdistributions for 2016 Subtract lines 3h and 4b from line 1 (if amount greater than zero, see instructions)			
7 Excess distributions carryover to 2017. Add lines 3j and 4c			
8 Breakdown of line 7			
a			
b Excess from 2013.			
c Excess from 2014.			
d Excess from 2015.			
e Excess from 2016.			

Part VI **Supplemental Information.**

Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12; Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C, line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a and 3b; Part V, line 1; Part V, Section B, line 1e; Part V Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information. (See instructions).

Facts And Circumstances Test

SCHEDULE D
(Form 990)

Department of the Treasury
Internal Revenue Service

Supplemental Financial Statements

► Complete if the organization answered "Yes," on Form 990, Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b.
► Attach to Form 990.
Information about Schedule D (Form 990) and its instructions is at www.irs.gov/form990.

OMB No 1545-0047

2016

Open to Public Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts.
Complete if the organization answered "Yes" on Form 990, Part IV, line 6.

	(a) Donor advised funds	(b) Funds and other accounts
1	Total number at end of year	
2	Aggregate value of contributions to (during year)	
3	Aggregate value of grants from (during year)	
4	Aggregate value at end of year	

5

Did the organization inform all donors and donor advisors in writing that the assets held in donor advised funds are the organization's property, subject to the organization's exclusive legal control?

☐ Yes ☐ No

6

Did the organization inform all grantees, donors, and donor advisors in writing that grant funds can be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit?

☐ Yes ☐ No

Part II Conservation Easements. Complete if the organization answered "Yes" on Form 990, Part IV, line 7.

1

Purpose(s) of conservation easements held by the organization (check all that apply)

☐ Preservation of land for public use (e g , recreation or education)

☐ Preservation of an historically important land area

☐ Protection of natural habitat

☐ Preservation of a certified historic structure

☐ Preservation of open space

2

Complete lines 2a through 2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last day of the tax year

	Held at the End of the Year
a	2a
b	2b
c	2c
d	2d

3

Number of conservation easements on a certified historic structure included in (a)

4

Number of conservation easements included in (c) acquired after 8/17/06, and not on a historic structure listed in the National Register

5

Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax year ►

6

Number of states where property subject to conservation easement is located ►

7

Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds?

☐ Yes ☐ No

8

Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year ►

9

Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year ► \$

10

Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) and section 170(h)(4)(B)(ii)?

☐ Yes ☐ No

11

In Part XIII, describe how the organization reports conservation easements in its revenue and expense statement, and balance sheet, and include, if applicable, the text of the footnote to the organization's financial statements that describes the organization's accounting for conservation easements

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets.
Complete if the organization answered "Yes" on Form 990, Part IV, line 8.

1a

If the organization elected, as permitted under SFAS 116 (ASC 958), not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide, in Part XIII, the text of the footnote to its financial statements that describes these items

b

If the organization elected, as permitted under SFAS 116 (ASC 958), to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items

(i)

Revenue included on Form 990, Part VIII, line 1

► \$

(ii)

Assets included in Form 990, Part X

► \$

2

If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under SFAS 116 (ASC 958) relating to these items

a

Revenue included on Form 990, Part VIII, line 1

► \$

b

Assets included in Form 990, Part X

► \$

Part III

Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets (continued)

3

Using the organization's acquisition, accession, and other records, check any of the following that are a significant use of its collection items (check all that apply)

a

☐ Public exhibition

b

☐ Scholarly research

c

☐ Preservation for future generations

d

☐ Loan or exchange programs

e

☐ Other

4

Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIII

5

During the year, did the organization solicit or receive donations of art, historical treasures or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection?

☐ Yes

☐ No

Part IV

Escrow and Custodial Arrangements.

Complete if the organization answered "Yes" on Form 990, Part IV, line 9, or reported an amount on Form 990, Part X, line 21.

1a

Is the organization an agent, trustee, custodian or other intermediary for contributions or other assets not included on Form 990, Part X?

☐ Yes

☐ No

b

If "Yes," explain the arrangement in Part XIII and complete the following table

c

Beginning balance

d

Additions during the year

e

Distributions during the year

f

Ending balance

	Amount
1c	
1d	
1e	
1f	

2a

Did the organization include an amount on Form 990, Part X, line 21, for escrow or custodial account liability?

☐ Yes

☐ No

b

If "Yes," explain the arrangement in Part XIII Check here if the explanation has been provided in Part XIII

☐

Part V

Endowment Funds. Complete if the organization answered "Yes" on Form 990, Part IV, line 10.

	(a)Current year	(b)Prior year	(c)Two years back	(d)Three years back	(e)Four years back
1a Beginning of year balance					
b Contributions					
c Net investment earnings, gains, and losses					
d Grants or scholarships					
e Other expenditures for facilities and programs					
f Administrative expenses					
g End of year balance					

2

Provide the estimated percentage of the current year end balance (line 1g, column (a)) held as

a

Board designated or quasi-endowment

b

Permanent endowment

c

Temporarily restricted endowment

The percentages on lines 2a, 2b, and 2c should equal 100%

3a

Are there endowment funds not in the possession of the organization that are held and administered for the organization by

(i) unrelated organizations

(ii) related organizations

b

If "Yes" on 3a(ii), are the related organizations listed as required on Schedule R?

	Yes	No
3a(i)		
3a(ii)		
3b		

4

Describe in Part XIII the intended uses of the organization's endowment funds

Part VI

Land, Buildings, and Equipment.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 11a. See Form 990, Part X, line 10.

Description of property	(a) Cost or other basis (investment)	(b) Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1a Land				
b Buildings				
c Leasehold improvements				
d Equipment		128,384,524	80,443,716	47,940,808
e Other				
Total. Add lines 1a through 1e (Column (d) must equal Form 990, Part X, column (B), line 10(c))				47,940,808

Part VII

Investments—Other Securities. Complete if the organization answered 'Yes' on Form 990, Part IV, line 11b.
See Form 990, Part X, line 12.

(a) Description of security or category (including name of security)	(b) Book value	(c) Method of valuation Cost or end-of-year market value
(1) Financial derivatives		
(2) Closely-held equity interests		
(3) Other _____		
(A) UNIVERSITY OF CALIFORNIA GENERAL ENDOWMENT POOL	12,342,389	F
(A)		
(B)		
(C)		
(D)		
(E)		
(F)		
(G)		
(H)		
Total. (Column (b) must equal Form 990, Part X, col (B) line 12) ▶	12,342,389	

Part VIII

Investments—Program Related. Complete if the organization answered 'Yes' on Form 990, Part IV, line 11c.
See Form 990, Part X, line 13.

(a) Description of investment	(b) Book value	(c) Method of valuation Cost or end-of-year market value
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
Total. (Column (b) must equal Form 990, Part X, col (B) line 13) ▶		

Part IX

Other Assets. Complete if the organization answered 'Yes' on Form 990, Part IV, line 11d See Form 990, Part X, line 15

(a) Description	(b) Book value
(1)	
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
Total. (Column (b) must equal Form 990, Part X, col (B) line 15) ▶	

Part X

Other Liabilities. Complete if the organization answered 'Yes' on Form 990, Part IV, line 11e or 11f.
See Form 990, Part X, line 25.

1. (a) Description of liability	(b) Book value	
(1) Federal income taxes		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
Total. (Column (b) must equal Form 990, Part X, col (B) line 25) ▶		

2. Liability for uncertain tax positions In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FIN 48 (ASC 740) Check here if the text of the footnote has been provided in Part XIII

☒

Part XI Reconciliation of Revenue per Audited Financial Statements With Revenue per Return

Complete if the organization answered 'Yes' on Form 990, Part IV, line 12a.

1	Total revenue, gains, and other support per audited financial statements	1	23,728,813
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12		
a	Net unrealized gains (losses) on investments	2a	1,182,915
b	Donated services and use of facilities	2b	
c	Recoveries of prior year grants	2c	
d	Other (Describe in Part XIII)	2d	991,799
e	Add lines 2a through 2d	2e	2,174,714
3	Subtract line 2e from line 1	3	21,554,099
4	Amounts included on Form 990, Part VIII, line 12, but not on line 1		
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a	
b	Other (Describe in Part XIII)	4b	978,045
c	Add lines 4a and 4b	4c	978,045
5	Total revenue. Add lines 3 and 4c . (This must equal Form 990, Part I, line 12)	5	22,532,144

Part XII Reconciliation of Expenses per Audited Financial Statements With Expenses per Return.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 12a.

1	Total expenses and losses per audited financial statements	1	25,554,482
2	Amounts included on line 1 but not on Form 990, Part IX, line 25		
a	Donated services and use of facilities	2a	
b	Prior year adjustments	2b	
c	Other losses	2c	
d	Other (Describe in Part XIII)	2d	
e	Add lines 2a through 2d	2e	0
3	Subtract line 2e from line 1	3	25,554,482
4	Amounts included on Form 990, Part IX, line 25, but not on line 1 :		
a	Investment expenses not included on Form 990, Part VIII, line 7b	4a	
b	Other (Describe in Part XIII)	4b	
c	Add lines 4a and 4b	4c	0
5	Total expenses. Add lines 3 and 4c . (This must equal Form 990, Part I, line 18)	5	25,554,482

Part XIII Supplemental Information

Provide the descriptions required for Part II, lines 3, 5, and 9, Part III, lines 1a and 4, Part IV, lines 1b and 2b, Part V, line 4, Part X, line 2, Part XI, lines 2d and 4b, and Part XII, lines 2d and 4b. Also complete this part to provide any additional information.

Return Reference	Explanation
See Additional Data Table	

Part XIII Supplemental Information *(continued)*

Return Reference	Explanation

Additional Data

Software ID:
Software Version:
EIN: 95-3972799
Name: CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Supplemental Information

Return Reference	Explanation
PART X, LINE 2	CARA HAS RECEIVED A DETERMINATION FROM TAXING AUTHORITIES THAT IT IS AN ORGANIZATION EXEMPT FROM TAXATION UNDER SECTION 501(C)(3) OF THE U S INTERNAL REVENUE CODE AND SECTION 23701D OF THE CALIFORNIA REVENUE AND TAXATION CODE AND IS GENERALLY NOT SUBJECT TO FEDERAL OR STATE INCOME TAXES HOWEVER, CARA IS SUBJECT TO INCOME TAXES ON ANY NET INCOME DERIVED FROM A TRADE OR BUSINESS, REGULARLY CARRIED ON, AND NOT IN FURTHERANCE OF THE PURPOSES FOR WHICH IT WAS GRANTED EXEMPTION NO INCOME TAX PROVISION HAS BEEN RECORDED AS THE NET INCOME, IF ANY FROM ANY UNRELATED TRADE OR BUSINESS, IN THE OPINION OF MANAGEMENT, IS NOT MATERIAL TO THE FINANCIAL STATEMENTS TAKEN AS A WHOLE CARA APPLIES THE PROVISIONS OF ASC TOPIC 740, INCOME TAXES, WHICH PRESCRIBES A RECOGNITION THRESHOLD AND MEASUREMENT ATTRIBUTE FOR THE FINANCIAL STATEMENT RECOGNITION AND MEASUREMENT OF A TAX POSITION TAKEN OR EXPECTED TO BE TAKEN IN A TAX RETURN, AND PROVIDES GUIDANCE ON DERECOGNITION, CLASSIFICATION, INTEREST , AND PENALTIES, DISCLOSURE, AND TRANSITION MANAGEMENT BELIEVES THAT NO SUCH UNCERTAINTAX POSITION EXISTS FOR CARA REQUIRING ACCRUAL OR DISCLOSURE AT SEPTEMBER 30, 2017 AND 2016 CARA IS NO LONGER SUBJECT TO U S FEDERAL INCOME TAX EXAMINATIONS BY TAX AUTHORITIES FOR YEARS BEFORE 2014

Supplemental Information	
Return Reference	Explanation
PART XI, LINE 2D - OTHER ADJUSTMENTS	NET ASSETS RELEASED FROM RESTRICTIONS 991,799

Supplemental Information	
Return Reference	Explanation
PART XI, LINE 4B - OTHER ADJUSTMENTS	TEMPORARILY RESTRICTED CONTRIBUTIONS 978,045

Supplemental Information	
Return Reference	Explanation
PART VI, LINE 1A	THE LAND IN WAIMEA IS OWNED BY CALIFORNIA INSTITUTE OF TECHNOLOGY AND IS NOT LISTED AS A CARA FIXED ASSET

Supplemental Information	
Return Reference	Explanation
PART VI, LINE 1B	THE HEADQUARTERS BUILDING IN WAIMEA AND THE OBSERVATORIES ON MAUNA KEA ARE OWNED BY CALIFORNIA INSTITUTE OF TECHNOLOGY AND ARE NOT LISTED AS CARRIED ASSETS

Supplemental Information	
Return Reference	Explanation
PART VI, LINE 1D	THE TELESCOPES ON MAUNA KEA ARE OWNED BY CALIFORNIA INSTITUTE OF TECHNOLOGY AND ARE NOT LISTED AS CARA FIXED ASSETS CARA OWNS ALL FOCAL-PLANE INSTRUMENTS, LASERS, AND ADAPTIVE OPTICS, PLUS VARIOUS OTHER EQUIPMENT NOT AFFIXED TO THE FACILITIES, COMPUTERS, AND VEHICLES

Supplemental Information	
Return Reference	Explanation
PART VII, LINE 3	THE UNIVERSITY OF CALIFORNIA GENERAL ENDOWMENT POOL IS A UNITIZED FUND CARA PARTICIPATES I N INVESTMENT RETURNS AND INCOME ON AN EQUIVALENT PRO-RATA BASIS WITH ALL PARTICIPANTS IN T HE POOL

**SCHEDULE F
(Form 990)**

Statement of Activities Outside the United States

OMB No 1545-0047

2016

**Open to Public
Inspection**

Department of the Treasury
Internal Revenue Service

► **Complete if the organization answered "Yes" to Form 990,
Part IV, line 14b, 15, or 16.**

► **Attach to Form 990. ► See separate instructions.**

► **Information about Schedule F (Form 990) and its instructions is at www.irs.gov/form990.**

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN
ASTRONOMY

Employer identification number

95-3972799

Part I **General Information on Activities Outside the United States.** Complete if the organization answered "Yes" to Form 990, Part IV, line 14b.

1 For grantmakers. Does the organization maintain records to substantiate the amount of its grants and other assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance?

☒ **Yes** ☐ **No**

2 For grantmakers. Describe in Part V the organization's procedures for monitoring the use of its grants and other assistance outside the United States

3 Activities per Region (The following Part I, line 3 table can be duplicated if additional space is needed)

(a) Region	(b) Number of offices in the region	(c) Number of employees, agents, and independent contractors in region	(d) Activities conducted in region (by type) (e g , fundraising, program services, investments, grants to recipients located in the region)	(e) If activity listed in (d) is a program service, describe specific type of service(s) in region	(f) Total expenditures for and investments in region
(1) See Add'l Data					
(2)					
(3)					
(4)					
(5)					
3a Sub-total	0	0			459,073
b Total from continuation sheets to Part I	0	0			0
c Totals (add lines 3a and 3b)	0	0			459,073

Part II **Grants and Other Assistance to Organizations or Entities Outside the United States.** Complete if the organization answered "Yes" to Form 990, Part IV, line 15, for any recipient who received more than \$5,000. Part II can be duplicated if additional space is needed.

1	(a) Name of organization	(b) IRS code section and EIN (if applicable)	(c) Region	(d) Purpose of grant	(e) Amount of cash grant	(f) Manner of cash disbursement	(g) Amount of non-cash assistance	(h) Description of non-cash assistance	(i) Method of valuation (book, FMV, appraisal, other)
(1)									
(2)									
(3)									
(4)									

2 Enter total number of recipient organizations listed above that are recognized as charities by the foreign country, recognized as tax-exempt by the IRS, or for which the grantee or counsel has provided a section 501(c)(3) equivalency letter ► _____

3 Enter total number of other organizations or entities ► _____

Part III **Grants and Other Assistance to Individuals Outside the United States.** Complete if the organization answered "Yes" to Form 990, Part IV, line 16.

Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance	(b) Region	(c) Number of recipients	(d) Amount of cash grant	(e) Manner of cash disbursement	(f) Amount of non-cash assistance	(g) Description of non-cash assistance	(h) Method of valuation (book, FMV, appraisal, other)
(1)							
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							
(11)							
(12)							
(13)							
(14)							
(15)							
(16)							
(17)							
(18)							

Part IV Foreign Forms

- 1 Was the organization a U S transferor of property to a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 926, Return by a U S Transferor of Property to a Foreign Corporation (see Instructions for Form 926)* ☐ Yes ☒ No
- 2 Did the organization have an interest in a foreign trust during the tax year? *If "Yes," the organization may be required to separately file Form 3520, Annual Return to Report Transactions with Foreign Trusts and Receipt of Certain Foreign Gifts, and/or Form 3520-A, Annual Information Return of Foreign Trust With a U S Owner (see Instructions for Forms 3520 and 3520-A)* ☐ Yes ☒ No
- 3 Did the organization have an ownership interest in a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 5471, Information Return of U S Persons with Respect to Certain Foreign Corporations (see Instructions for Form 5471)* ☐ Yes ☒ No
- 4 Was the organization a direct or indirect shareholder of a passive foreign investment company or a qualified electing fund during the tax year? *If "Yes," the organization may be required to file Form 8621, Information Return by a Shareholder of a Passive Foreign Investment Company or Qualified Electing Fund (see Instructions for Form 8621)* ☐ Yes ☒ No
- 5 Did the organization have an ownership interest in a foreign partnership during the tax year? *If "Yes," the organization may be required to file Form 8865, Return of U S Persons with Respect to Certain Foreign Partnerships (see Instructions for Form 8865)* ☐ Yes ☒ No
- 6 Did the organization have any operations in or related to any boycotting countries during the tax year? *If "Yes," the organization may be required to separately file Form 5713, International Boycott Report (see Instructions for Form 5713)* ☐ Yes ☒ No

Part V **Supplemental Information**

Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information (see instructions).

Return Reference	Explanation
PART I, LINE 2	CARA MONITORS GRANTEES' PERFORMANCE BASED ON ACHIEVEMENT OF GRANT PURPOSES ACCORDING TO FEDERAL, STATE, AND PRIVATE FOUNDATION CONDITIONS AND COMPLIANCE IN ADDITION TO CARA'S INTERNAL PROCEDURES INCLUDING THE BEST PRACTICES UNDER OMB UNIFORM GUIDANCE SUB-RECIPIENT MONITORING REQUIREMENTS

Additional Data

Software ID:

Software Version:

EIN: 95-3972799

Name: CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Form 990 Schedule F Part I - Activities Outside The United States

(a) Region	(b) Number of offices in the region	(c) Number of employees or agents in region	(d) Activities conducted in region (by type) (i.e., fundraising, program services, grants to recipients located in the region)	(e) If activity listed in (d) is a program service, describe specific type of service(s) in region	(f) Total expenditures for region
EUROPE (INCLUDING ICELAND & GREENLAND)- ALBANIA, ANDORRA, AUSTRIA, BELGIUM	0	0	PROGRAM SERVICES	COLLABORATIVE SCIENTIFIC MEETINGS WITH VARIOUS LABORATORIES	6,791
EUROPE (INCLUDING ICELAND & GREENLAND) - ALBANIA, ANDORRA, AUSTRIA, BELGIUM	0	0	SPEAKING AT SEMINARS OR CONFERENCES	ADASS/ASTROINFORMATICS 2016, LIBRARY & INFORMATION SERVICES IN ASTRONOMY	7,928
EUROPE (INCLUDING ICELAND & GREENLAND)- ALBANIA, ANDORRA, AUSTRIA, BELGIUM	0	0	PROGRAM SERVICES	SCHOTT NORTH AMERICA - STORAGE OF LASER BLANKS TOPICA LASER DEVELOPMENT - CONTRACTED WITH THIS FIRM TO FABRICATE AND DEVELOP TELESCOPE INSTRUMENTATION, AND PROVIDE ONGOING SUPPORT MICROGATE - CONTRACTED WITH THIS FIRM FOR SUPPORT OF THE NEXT GENERATION WAVEFRONT CONTROLLER CRISTAL LASER - PURCHASED LASER CRYSTALS WITH COATINGS	44,318

Form 990 Schedule F Part I - Activities Outside The United States

(a) Region	(b) Number of offices in the region	(c) Number of employees or agents in region	(d) Activities conducted in region (by type) (i.e., fundraising, program services, grants to recipients located in the region)	(e) If activity listed in (d) is a program service, describe specific type of service(s) in region	(f) Total expenditures for region
NORTH AMERICA - CANADA AND MEXICO, BUT NOT THE UNITED STATES	0	0	PROGRAM SERVICES	SG CONSULTING LTD - CONSULTING SERVICES IN CONNECTION WITH UNATTENDED NIGHT OPERATIONS DEVELOPMENT PROJECT MPB COMMUNICATIONS, INC - PURCHASE OF LASER SPARES	342,336
SOUTH AMERICA	0	0	PROGRAM SERVICES	RESEARCH VISIT & COLLABORATIVE SCIENTIFIC MEETINGS	3,694
EAST ASIA AND THE PACIFIC	0	0	PROGRAM SERVICES	RESEARCH VISIT & COLLABORATIVE SCIENTIFIC MEETINGS	14,596

Form 990 Schedule F Part I - Activities Outside The United States

(a) Region	(b) Number of offices in the region	(c) Number of employees or agents in region	(d) Activities conducted in region (by type) (i.e., fundraising, program services, grants to recipients located in the region)	(e) If activity listed in (d) is a program service, describe specific type of service(s) in region	(f) Total expenditures for region
SOUTH ASIA - AFGHANISTAN, BANGLADESH, BHUTAN, INDIA, MALDIVES, NEPAL,	0	0	PROGRAM SERVICES	FLAT WAVEFRONTS, LTD - CONSULTING SUPPORT FOR THE AO OPTIMIZATION PROJECT	39,410

Schedule I
(Form 990)

Department of the Treasury
Internal Revenue Service

Grants and Other Assistance to Organizations,
Governments and Individuals in the United States

Complete if the organization answered "Yes," on Form 990, Part IV, line 21 or 22.
▶ Attach to Form 990.
▶ Information about Schedule I (Form 990) and its instructions is at www.irs.gov/form990.

OMB No 1545-0047

2016

Open to Public Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

Part I

General Information on Grants and Assistance

- 1 Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? ☒ Yes ☐ No
- 2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States

Part II

Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table 9

3 Enter total number of other organizations listed in the line 1 table 9

Part III Grants and Other Assistance to Domestic Individuals. Complete if the organization answered "Yes" on Form 990, Part IV, line 22.
Part III can be duplicated if additional space is needed

(a) Type of grant or assistance	(b) Number of recipients	(c) Amount of cash grant	(d) Amount of non-cash assistance	(e) Method of valuation (book, FMV, appraisal, other)	(f) Description of non-cash assistance
(1)					
(2)					
(3)					
(4)					
(5)					
(6)					
(7)					

Part IV Supplemental Information. Provide the information required in Part I, line 2, Part III, column (b), and any other additional information.

Return Reference	Explanation
PART I, LINE 2	CARA MONITORS GRANTEES' PERFORMANCE BASED ON ACHIEVEMENT OF GRANT PURPOSES ACCORDING TO FEDERAL, STATE AND PRIVATE FOUNDATION CONDITIONS AND COMPLIANCE IN ADDITION TO CARA'S INTERNAL PROCEDURES INCLUDING OMB UNIFORM GUIDANCE SUB-RECIPIENT MONITORING REQUIREMENTS

Additional Data

Software ID:
Software Version:
EIN: 95-3972799
Name: CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
UNIVERSITY OF CALIFORNIA BERKELEY 2150 SHATTUCK AVENUE BERKELEY, CA 947045940	94-6002123	501(C)(3)	937,170		CASH		SUB-AWARD UNDER THE HEISING-SIMONS FOUNDATION FUNDED PRIME AWARD FOR THE PRELIMINARY DESIGN OF THE ASTRONOMICAL INSTRUMENT THE KECK PLANET FINDER
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 E CALIFORNIA BLVD PASADENA, CA 946075200	95-1643307	501(C)(3)	370,541		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED AURA TSIP SUB-AWARD N09426C-A FOR THE DEVELOPMENT OF THE ASTRONOMICAL INSTRUMENT THE KECK COSMIC WEB IMAGER

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
UNIVERSITY OF CALIFORNIA LOS ANGELES 10920 WILSHIRE BLVD LOS ANGELES, CA 900246503	95-6006143	501(C)(3)	233,540		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED NSF AST-1532315 PRIME AWARD FOR THE UPGRADE OF THE ASTRONOMICAL INSTRUMENT NIRSPEC
CARNEGIE INSTITUTE OF WASHINGTON 813 SANTA BARBARA STREET PASADENA, CA 911011232	53-0196523	501(C)(3)	100,049		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED NSF AST-142980 FOR THE DEVELOPMENT OF THE ASTRONOMICAL INSTRUMENT THE KECK COSMIC WEB IMAGER REIONIZATION MAPPER

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
UNIVERSITY OF CALIFORNIA LOS ANGELES 10920 WILSHIRE BLVD LOS ANGELES, CA 900246503	95-6006143	501(C)(3)	81,716		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED NSF AST-1311102 PRIME AWARD FOR THE UPGRADE OF THE OSIRIS DETECTOR
UNIVERSITY OF HAWAII AT MANOA 2500 CAMPUS ROAD HONOLULU, HI 96822	99-6000354	501(C)(3)	42,080		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED NSF AST-1611623 PRIME AWARD FOR THE DEVELOPMENT OF THE ASTRONOMICAL INSTRUMENT NEAR IR-PYRAMID WAVEFRONT SENSOR

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 E CALIFORNIA BLVD PASADENA, CA 946075200	95-1643307	501(C)(3)	41,169		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED NSF AST-142980 FOR THE DEVELOPMENT OF THE ASTRONOMICAL INSTRUMENT THE KECK COSMIC WEB IMAGER REIONIZATION MAPPER
UNIVERSITY OF CALIFORNIA SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	95-6006144	501(C)(3)	17,847		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED NSF AST-1311102 PRIME AWARD FOR THE UPGRADE OF THE OSIRIS DETECTOR

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(a) Name and address of organization or government	(b) EIN	(c) IRC section if applicable	(d) Amount of cash grant	(e) Amount of non-cash assistance	(f) Method of valuation (book, FMV, appraisal, other)	(g) Description of non-cash assistance	(h) Purpose of grant or assistance
UNIVERSITY OF HAWAII AT MANOA 2500 CAMPUS ROAD HONOLULU, HI 96822	99-6000354	501(C)(3)	8,590		CASH		SUB-AWARD UNDER THE FEDERALLY FUNDED NSF AST-1311102 PRIME AWARD FOR THE UPGRADE OF THE OSIRIS DETECTOR

Schedule J
(Form 990)

Department of the Treasury
Internal Revenue Service

Compensation Information

For certain Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees
▶ Complete if the organization answered "Yes" on Form 990, Part IV, line 23.
▶ Attach to Form 990.
▶ Information about Schedule J (Form 990) and its instructions is at www.irs.gov/form990.

OMB No 1545-0047

2015

Open to Public Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

Part I

Questions Regarding Compensation

	Yes	No
1a Check the appropriate box(es) if the organization provided any of the following to or for a person listed on Form 990, Part VII, Section A, line 1a. Complete Part III to provide any relevant information regarding these items. ☐ First-class or charter travel ☐ Travel for companions ☐ Tax idemnification and gross-up payments ☐ Discretionary spending account ☐ Housing allowance or residence for personal use ☐ Payments for business use of personal residence ☐ Health or social club dues or initiation fees ☐ Personal services (e g , maid, chauffeur, chef)		
b If any of the boxes in line 1a are checked, did the organization follow a written policy regarding payment or reimbursement or provision of all of the expenses described above? If "No," complete Part III to explain.	1b	
2 Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors, trustees, officers, including the CEO/Executive Director, regarding the items checked in line 1a?	2	
3 Indicate which, if any, of the following the filing organization used to establish the compensation of the organization's CEO/Executive Director. Check all that apply. Do not check any boxes for methods used by a related organization to establish compensation of the CEO/Executive Director, but explain in Part III. ☐ Compensation committee ☐ Independent compensation consultant ☐ Form 990 of other organizations ☐ Written employment contract ☐ Compensation survey or study ☐ Approval by the board or compensation committee		
4 During the year, did any person listed on Form 990, Part VII, Section A, line 1a with respect to the filing organization or a related organization:		
a Receive a severance payment or change-of-control payment?	4a	No
b Participate in, or receive payment from, a supplemental nonqualified retirement plan?	4b	No
c Participate in, or receive payment from, an equity-based compensation arrangement?	4c	No
If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.		
Only 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9.		
5 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the revenues of:		
a The organization?	5a	No
b Any related organization?	5b	No
If "Yes," on line 5a or 5b, describe in Part III.		
6 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the net earnings of:		
a The organization?	6a	No
b Any related organization?	6b	No
If "Yes," on line 6a or 6b, describe in Part III.		
7 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any non-fixed payments not described in lines 5 and 6? If "Yes," describe in Part III.	7	Yes
8 Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III.	8	No
9 If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53.4958-6(c)?	9	

Part II Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees. Use duplicate copies if additional space is needed.

For each individual whose compensation must be reported on Schedule J, report compensation from the organization on row (i) and from related organizations, described in the instructions, on row (ii). Do not list any individuals that are not listed on Form 990, Part VII.

Note. The sum of columns (B)(i)-(iii) for each listed individual must equal the total amount of Form 990, Part VII, Section A, line 1a, applicable column (D) and (E) amounts for that individual.

(A) Name and Title	(B) Breakdown of W-2 and/or 1099-MISC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation in column(B) reported as deferred on prior Form 990
	(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
See Additional Data Table							

Part III Supplemental Information

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.

Return Reference	Explanation
PART I, LINE 3	ANNUALLY THE CARA BOARD EXECUTIVE COMMITTEE REVIEWS AND APPROVES THE COMPENSATION OF BOTH THE DIRECTOR AND THE CHIEF SCIENTIST USING MARKET COMPENSATION STUDIES WHICH MAY INCLUDE OTHER FORM 990 RETURNS
PART I, LINE 7	CARA HAS AN OBSERVATORY-WIDE BONUS PROGRAM FOR WHICH ALL CARA EMPLOYEES ARE ELIGIBLE TO BE NOMINATED BY OTHER CARA EMPLOYEES FOR ACHIEVEMENTS BASED ON NON-REVENUE CRITERIA. THREE INDIVIDUALS LISTED IN PART II RECEIVED BONUSES UNDER THE PROGRAM.
SCHEDULE J, PART II - SECTION B (III)	OTHER REPORTABLE COMPENSATION - INCLUDES EMPLOYER-PAID DEPENDENT TUITION

Additional Data

Software ID:
Software Version:
EIN: 95-3972799
Name: CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Form 990, Schedule J, Part II - Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

(A) Name and Title		(B) Breakdown of W-2 and/or 1099-MISC compensation			(C) Retirement and other deferred compensation	(D) Nontaxable benefits	(E) Total of columns (B)(i)-(D)	(F) Compensation in column (B) reported as deferred on prior Form 990
		(i) Base Compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation				
1MR HILTON LEWIS OBSERVATORY DIRECTOR	(i)	275,082	0	0	36,403	34,466	345,951	0
	(ii)	0	0	0	0	- 0	- 0	0
1MR RICHARD MATSUDA CHIEF OF OPERATIONS	(i)	194,253	0	0	19,728	30,614	244,595	0
	(ii)	0	0	0	0	- 0	- 0	0
2DR PETER WIZINOWICH OPTICS ENGINEERING MANAGER	(i)	194,220	0	0	27,460	26,029	247,709	0
	(ii)	0	0	0	0	- 0	- 0	0
3MS MARGARITA SCHEFFEL OBSERVATORY CFO	(i)	186,727	500	1,368	26,888	28,157	243,640	0
	(ii)	0	0	0	0	- 0	- 0	0
4DR ANNE KINNEY CHIEF SCIENTIST	(i)	212,315	0	0	29,485	14,035	255,835	0
	(ii)	0	0	0	0	- 0	- 0	0
5MR SEAN ADKINS INSTRUMENT PROGRAM MANAGER	(i)	135,497	0	16,406	11,393	22,013	185,309	0
	(ii)	0	0	0	0	- 0	- 0	0
6MR KEVIN MCCANN SOFTWARE ENGINEERING MANAG	(i)	184,865	0	0	26,294	30,468	241,627	0
	(ii)	0	0	0	0	- 0	- 0	0
7MR DENNIS MCBRIDE PRINCIPAL ENGINEER	(i)	170,924	0	0	13,549	16,083	200,556	0
	(ii)	0	0	0	0	- 0	- 0	0
8MR JASON CHIN SENIOR OPTICS ENGINEER	(i)	148,801	1,200	12,750	12,401	32,479	207,631	0
	(ii)	0	0	0	0	- 0	- 0	0
9MR KEVIN TSUBOTA SENIOR SOFTWARE ENGINEER	(i)	150,335	450	0	12,124	26,548	189,457	0
	(ii)	0	0	0	0	- 0	- 0	0

SCHEDULE M
(Form 990)

Department of the Treasury
Internal Revenue Service

Noncash Contributions

►Complete if the organizations answered "Yes" on Form 990, Part IV, lines 29 or 30.
►Attach to Form 990.
►Information about Schedule M (Form 990) and its instructions is at www.irs.gov/form990

OMB No 1545-0047

2016

Open to Public Inspection

Name of the organization
CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY

Employer identification number
95-3972799

Part I

Types of Property

	(a) Check if applicable	(b) Number of contributions or items contributed	(c) Noncash contribution amounts reported on Form 990, Part VIII, line 1g	(d) Method of determining noncash contribution amounts
1 Art—Works of art				
2 Art—Historical treasures .				
3 Art—Fractional interests . .				
4 Books and publications . .				
5 Clothing and household goods				
6 Cars and other vehicles . .				
7 Boats and planes				
8 Intellectual property . . .				
9 Securities—Publicly traded .	X	2	442,785	FMV AT DATE OF DONATION
10 Securities—Closely held stock .				
11 Securities—Partnership, LLC, or trust interests				
12 Securities—Miscellaneous . .				
13 Qualified conservation contribution—Historic structures				
14 Qualified conservation contribution—Other				
15 Real estate—Residential .				
16 Real estate—Commercial . .				
17 Real estate—Other				
18 Collectibles				
19 Food inventory				
20 Drugs and medical supplies .				
21 Taxidermy				
22 Historical artifacts				
23 Scientific specimens . . .				
24 Archeological artifacts . . .				
25 Other ► ()				
26 Other ► ()				
27 Other ► ()				
28 Other ► ()				

29

Number of Forms 8283 received by the organization during the tax year for contributions for which the organization completed Form 8283, Part IV, Donee Acknowledgement

30a

During the year, did the organization receive by contribution any property reported in Part I, lines 1 through 28, that it must hold for at least three years from the date of the initial contribution, and which is not required to be used for exempt purposes for the entire holding period?

31

If "Yes," describe the arrangement in Part II

32a

Does the organization have a gift acceptance policy that requires the review of any non-standard contributions?

33a

Does the organization hire or use third parties or related organizations to solicit, process, or sell noncash contributions?

34a

If "Yes," describe in Part II

35

If the organization did not report an amount in column (c) for a type of property for which column (a) is checked, describe in Part II

Yes

No

No

No

No

No

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Cat No 51227J

Schedule M (Form 990) (2016)

Part II**Supplemental Information.**

Provide the information required by Part I, lines 30b, 32b, and 33, and whether the organization is reporting in Part I, column (b), the number of contributions, the number of items received, or a combination of both. Also complete this part for any additional information.

Return Reference

Explanation

SCHEDULE O (Form 990 or 990-EZ) Department of the Treasury Internal Revenue Service	Supplemental Information to Form 990 or 990-EZ Complete to provide information for responses to specific questions on Form 990 or 990-EZ or to provide any additional information. ▶ Attach to Form 990 or 990-EZ. ▶ Information about Schedule O (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990 .	OMB No 1545-0047 2016 Open to Public Inspection
Name of the organization CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY		Employer identification number 95-3972799

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART I, LINE 1, DESCRIPTION OF ORGANIZATION MISSION	TO ADVANCE THE FRONTIERS OF ASTRONOMY AND SHARE OUR DISCOVERIES WITH THE WORLD CARA WAS FORMED BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA AND CALIFORNIA INSTITUTE OF TECHNOLOGY TO OPERATE TWO 10-METER OPTICAL/INFRARED TELESCOPES ON MAUNA KEA ON THE ISLAND OF HAWAII

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART III, LINE 1, DESCRIPTION OF ORGANIZATION MISSION	TO ADVANCE THE FRONTIERS OF ASTRONOMY AND SHARE OUR DISCOVERIES WITH THE WORLD THE TWO 10-METER TELESCOPES OF KECK OBSERVATORY ARE THE WORLD'S LARGEST OPTICAL AND INFRARED TELESCOPES THEY HAVE REVOLUTIONIZED OUR UNDERSTANDING OF THE COSMOS, IMPACTING EVERY AREA OF ASTRONOMY AND ASTROPHYSICS

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART III, LINE 4A, DESCRIPTION OF PROGRAM SERVICE	HIGHER EDUCATION THE TWIN TELESCOPES ARE DEDICATED TO ASTRONOMICAL RESEARCH 365 DAYS/NIGHTS PER YEAR AND FEATURE A SUITE OF ADVANCED INSTRUMENTATION TIME ON THE KECK TELESCOPES IS ONE OF THE MOST SOUGHT-AFTER RESOURCES IN ASTRONOMICAL AND PLANETARY SCIENCE RESEARCH OBSERVING TIME ON THE KECK TELESCOPES IS DIVIDED EACH YEAR AMONG ITS FOUNDING PARTNER INSTITUTIONS CALIFORNIA INSTITUTE OF TECHNOLOGY AND THE UNIVERSITY OF CALIFORNIA, AS WELL AS NASA AND THE UNIVERSITY OF HAWAII THE BROADER OBSERVING COMMUNITY HAS ACCESS TO THE TELESCOPES THROUGH PARTNERSHIPS WITH THE NATIONAL SCIENCE FOUNDATION AND NASA CARA'S ACTIVITIES INCLUDE ENTERING INTO GRANTS AND CONTRACTS TO CARRY OUT ASTRONOMICAL RESEARCH AND INSTRUMENTATION DEVELOPMENT KECK HAS PUSHED THE FRONTIERS OF DISCOVERY, SEARCHING FOR NEW INHABITABLE WORLDS, PROBING THE MYSTERIES OF THE MILKY WAY, MEASURING DISTANT GALAXIES AND REVEALING OTHER COSMIC PHENOMENON SO THAT WE MAY FURTHER UNDERSTAND THE NATURE OF THE UNIVERSE AND OUR PLACE IN ITS VAST EXPANSE

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION A, LINE 2	BOARD MEMBERS AIMEE DORR, GEORGE BLUMENTHAL, NATHAN BROSTROM AND CLAIRE MAX HAD A BUSINESS RELATIONSHIP THROUGH THE UNIVERSITY OF CALIFORNIA EDWARD STOLPER (A CALTECH OFFICER), SH RINIVAS KULKARNI AND FIONA HARRISON HAD A BUSINESS RELATIONSHIP THROUGH CALIFORNIA INSTITUTE OF TECHNOLOGY CALIFORNIA INSTITUTE OF TECHNOLOGY AND THE UNIVERSITY OF CALIFORNIA PROVIDE VARIOUS INSTRUMENTS AND ADAPTIVE OPTICS DEVELOPMENT SERVICES TO CARA DURING TAX YEAR 2016, TOTAL EXPENDITURES FOR THESE SERVICES CHARGED TO CARA WERE \$535,629 BY CALTECH, AND \$1,332,718 BY THE UNIVERSITY OF CALIFORNIA

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION A, LINE 7A	PER THE 1992 AMENDED AND RESTATED AGREEMENT BETWEEN THE UNIVERSITY OF CALIFORNIA AND CALIFORNIA INSTITUTE OF TECHNOLOGY, THE PRESIDENTS AT BOTH INSTITUTIONS EACH DESIGNATE THREE BOARD MEMBERS TO SERVE ON THE CARA BOARD

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION B, LINE 11B	A DRAFT FORM 990 IS PROVIDED TO THE AUDIT COMMITTEE FOR REVIEW AND COMMENT AFTER ANY REQUIRED CHANGES ARE MADE AND PRIOR TO FILING, MANAGEMENT DISTRIBUTES A COPY TO THE BOARD INDICATING WHO PREPARED AND REVIEWED THE FORM 990, AND WHO WILL SIGN AND FILE THE FORM BY THE DUE DATE

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION B, LINE 12C	ANNUALLY EACH BOARD MEMBER IS REQUIRED TO DISCLOSE AND SIGN A BOARD GOVERNANCE DOCUMENT INDICATING ANY BUSINESS, PERSONAL OR FAMILY RELATIONSHIPS WITH OTHER BOARD MEMBERS, STAFF OR MAJOR VENDORS INVOLVING THEMSELVES AND/OR THEIR FAMILY MEMBERS THE SIGNED DISCLOSURES ARE THEN REVIEWED BY THE AUDIT COMMITTEE AND THE AUDIT COMMITTEE CHAIR NOTIFIES THE BOARD OF ANY CONFLICTS SUFFICIENT TO WARRANT THE ATTENTION OF THE BOARD KEY EMPLOYEES AND THE FIVE HIGHEST COMPENSATED EMPLOYEES ARE REQUIRED TO DISCLOSE AND SIGN AN ANNUAL INFORMATION REQUEST INDICATING ANY FAMILY OR BUSINESS RELATIONSHIPS THAT MAY IMPACT ORGANIZATIONAL MANAGEMENT AND GOVERNANCE FORM 990, PART VI, SECTION B, LINE 13 WHISTLEBLOWER POLICY HAWAII STATE LABOR LAWS REQUIRE POSTING OF THE STATE'S WHISTLEBLOWER PROTECTION LAW NOTICE WHICH OUTLINES A STANDARD WHISTLEBLOWER PROCESS CARA COMPLIED WITH THE WORKPLACE LABOR POSTING LAWS DURING TAX YEAR 2016 FORM 990, PART VI, SECTION B, LINE 14 RECORDS RETENTION FINANCIAL RECORDS FOLLOW BOTH THE IRS RETENTION GUIDELINES AND THE REQUIREMENTS OF THE FEDERAL GOVERNMENT FOR FEDERAL AWARDS ISSUED UNDER OMB UNIFORM GUIDANCE

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION B, LINE 15	PROCESS FOR DETERMINING COMPENSATION FOR THE DIRECTOR AND CHIEF SCIENTIST ANNUALLY THE CA RA BOARD EXECUTIVE COMMITTEE REVIEWS AND APPROVES THE DIRECTOR'S AND CHIEF SCIENTIST'S COM PENSATION USING MARKET COMPENSATION STUDIES

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION C, LINE 19	GOVERNANCE DOCUMENTS AND CONFLICT OF INTEREST POLICIES ARE MADE AVAILABLE UPON REQUEST FI NANCIAL STATEMENTS IN THE FORM OF AN ANNUAL AUDIT ARE PUBLISHED ON THE CARA WEBSITE AT WWW KECKOBSERVATORY ORG

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART XII, LINE 2C	THE ORGANIZATION HAS NOT CHANGED EITHER ITS OVERSIGHT PROCESS OR SELECTION PROCESS DURING THE YEAR