** PUBLIC DISCLOSURE COPY **

(Rev. January 2020) Department of the Treasury Internal Revenue Service

Return of Organization Exempt From Income Tax 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.

► Go to www.irs.gov/Form990 for instructions and the latest information.

Open to Public Inspection

OMB No. 1545-0047

АГ	or the	20 19 calendar year, or tax year beginning and	i enaing	_	
B c	heck if pplicable	C Name of organization		D Employer identifi	cation number
	Addres]	
	Name change	Doing business as		86-00989	18
	Initial return	Number and street (or P.O. box if mail is not delivered to street address)	Room/suite		
	Final return/	1400 W. MARS HILL ROAD		928-774-	
_	termin- ated	City or town, state or province, country, and ZIP or foreign postal code		G Gross receipts \$	29,990,303.
	Amend	FLAGSIAFF, AZ 00001-4470		H(a) Is this a group re	
	Applica tion pendin	F Name and address of principal officer: OEFF 11ADD		for subordinates	s? Yes X No
		SAME AS C ABOVE		H(b) Are all subordinates i	ncluded? Yes No
		empt status: $X = 501(c)(3) = 501(c)(0)$ (insert no.) $4947(a)(1)$	or 527	If "No," attach a	list. (see instructions)
		e: WWW.LOWELL.EDU		H(c) Group exemption	
		organization: X Corporation Trust Association Other	L Year	of formation: 1946	M State of legal domicile; ${ m AZ}$
Pa		Summary			
ce	1	Briefly describe the organization's mission or most significant activities: ${\color{red} { ext{LOWE}}}$	LL'S N	IISSION IS T	O PURSUE
nan		Check this box if the organization discontinued its operations or disposit	and of more	a than OEO/ of its not o	na ata
ver					l 1
Ĝ				·····	0
οŏ		Number of independent voting members of the governing body (Part VI, line 1b) Total number of individuals employed in calendar year 2019 (Part V, line 2a)			183
ţį					94
Activities & Governance		Total number of volunteers (estimate if necessary)			0.
A		Total unrelated business revenue from Part VIII, column (C), line 12		·····	0.
	<u> </u>	Net unrelated business taxable income from Form 990-T, line 39		Prior Year	Current Year
	8 (Contributions and grants (Part VIII, line 1h)		11,300,815.	22,432,053.
Jue		Program service revenue (Part VIII, line 2g)		4,994,781.	4,273,398.
Revenue		nvestment income (Part VIII, column (A), lines 3, 4, and 7d)		143,345.	2,074,969.
æ		Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)		358,358.	441,100.
		Fotal revenue - add lines 8 through 11 (must equal Part VIII, column (A), line 12)		16,797,299.	29,221,520.
	_	Grants and similar amounts paid (Part IX, column (A), lines 1-3)		744,082.	819,057.
		Benefits paid to or for members (Part IX, column (A), line 4)		0.	0.
ç		Salaries, other compensation, employee benefits (Part IX, column (A), lines 5-10)		7,190,579.	7,869,184.
Expenses				0.	0.
Kpe	b ·	Professional fundraising fees (Part IX, column (A), line 11e) Fotal fundraising expenses (Part IX, column (D), line 25) 1,199,3	61.		
ш		Other expenses (Part IX, column (A), lines 11a-11d, 11f-24e)		4,894,757.	
		Total expenses. Add lines 13-17 (must equal Part IX, column (A), line 25)		12,829,418.	
	19	Revenue less expenses. Subtract line 18 from line 12		3,967,881.	14,874,603.
let Assets or und Balances			Be	eginning of Current Year	End of Year
sets alan	20	Total assets (Part X, line 16)		48,062,648.	65,145,325.
t As Id B	21	Total liabilities (Part X, line 26)		16,568,732.	20,739,131.
<u> — II</u>	22	Net assets or fund balances. Subtract line 21 from line 20		31,493,916.	44,406,194.
	ırt II	Signature Block			
		ties of perjury, I declare that I have examined this return, including accompanying schedul			y knowledge and belief, it is
true,	correc	t, and complete. Declaration of preparer (other than officer) is based on all information of w	hich prepare	r has any knowledge.	
		Cinnahuna at afficar		Dete	
Sign		Signature of officer		Date	
Her	е	ANNE LABRUZZO, DEPUTY DIRECTOR OF ADM Type or print name and title	11N•		
		·		Date Check	PTIN
Da!d	.	Print/Type preparer's name Preparer's signature		Ontook L	
Paid		KELLY L. MELTZER, CPA KELLY L. MELTZE	K, CP	JO/ 44 / 4U self-employ	P00633511
-	Only	Firm's name BEACHFLEISCHMAN PC Firm's address 1985 E. RIVER ROAD, SUITE 201		Firm's EIN	86-0683059
บชิยิ	Only	Firm's address 1985 E. RIVER ROAD, SUITE 201 TUCSON, AZ 85718		Dhoma == 5.2	0-321-4600
N /	, +h = !"	-		Priorie no. 3 4	77
ıvlay	tne IF	S discuss this return with the preparer shown above? (see instructions)			X Yes No

15580624 759078 16383

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	х	
2	Is the organization required to complete Schedule B, Schedule of Contributors?	2	X	
3	Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for			
Ū	public office? If "Yes," complete Schedule C, Part I	3		х
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		Х
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		Х
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		х
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		x
8	Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete	<u> </u>		
	Schedule D, Part III	8	Х	
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		х
10	Did the organization, directly or through a related organization, hold assets in donor-restricted endowments			
	or in quasi endowments? If "Yes," complete Schedule D, Part V	10	X	
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.			
а	Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D,		Х	
b	Part VI Did the organization report an amount for investments - other securities in Part X, line 12, that is 5% or more of its total	11a		
b	assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII	11b		x
c	Did the organization report an amount for investments - program related in Part X, line 13, that is 5% or more of its total	110		
·	assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII	11c		Х
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		х
6	Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X	11e	Х	
f	Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses			\vdash
•	the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X	11f	Х	
12a	Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete			
	Schedule D, Parts XI and XII	12a		X
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	Х	37
13	Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	13		X
14a	Did the organization maintain an office, employees, or agents outside of the United States?	14a		X
b				
	investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000	441.		X
45	or more? If "Yes," complete Schedule F, Parts I and IV	14b		
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		Х
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		X
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	17		X
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		X
19	Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes,"	40		X
20-	complete Schedule G, Part III Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H	19 20a		X
20a b		20a 20b		
21	Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or	200		\vdash
-'	domestic government on Part IX, column (A), line 1? If "Yes," complete Schedule I, Parts I and II	21	Х	
	• ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			

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Part IV Checklist of Required Schedules (continued)

			Yes	No
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? If "Yes," complete Schedule I, Parts I and III	22		X
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? If "Yes," complete			
	Schedule J	23	X	
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? If "Yes," answer lines 24b through 24d and complete			
	Schedule K. If "No," go to line 25a	24a		Х
b	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b		
С	Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease			
	any tax-exempt bonds?	24c		
d	Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d		
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? If "Yes," complete Schedule L, Part I	25a		Х
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? If "Yes," complete			
	Schedule L, Part I	25b		Х
26	Did the organization report any amount on Part X, line 5 or 22, for receivables from or payables to any current			
	or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35%			
	controlled entity or family member of any of these persons? If "Yes," complete Schedule L, Part II	26		Х
27	Did the organization provide a grant or other assistance to any current or former officer, director, trustee, key employee,			
	creator or founder, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled			
	entity (including an employee thereof) or family member of any of these persons? If "Yes," complete Schedule L, Part III	27		Х
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):			
а	A current or former officer, director, trustee, key employee, creator or founder, or substantial contributor? If			
	"Yes," complete Schedule L, Part IV	28a		Х
	A family member of any individual described in line 28a? If "Yes," complete Schedule L, Part IV	28b		Х
С	A 35% controlled entity of one or more individuals and/or organizations described in lines 28a or 28b? If			
	"Yes," complete Schedule L, Part IV	28c		X
29	Did the organization receive more than \$25,000 in non-cash contributions? If "Yes," complete Schedule M	29	X	
30	Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation			.,
	contributions? If "Yes," complete Schedule M	30		X
31	Did the organization liquidate, terminate, or dissolve and cease operations? If "Yes," complete Schedule N, Part I	31		Х
32	Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? If "Yes," complete			- V
	Schedule N, Part II	32		X
33	Did the organization own 100% of an entity disregarded as separate from the organization under Regulations	00		х
0.4	sections 301.7701-2 and 301.7701-3? If "Yes," complete Schedule R, Part I	33		
34	Was the organization related to any tax-exempt or taxable entity? If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1	34	Х	
25.0		35a	X	
	Did the organization have a controlled entity within the meaning of section 512(b)(13)? If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity	JJa		\vdash
b	within the meaning of section 512(b)(13)? If "Yes," complete Schedule R, Part V, line 2	35b		х
36	Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization?	555		
	If "Yes," complete Schedule R, Part V, line 2	36		х
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? If "Yes," complete Schedule R, Part VI	37		Х
38	Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19?			
		38	Х	
Pai				
	Check if Schedule O contains a response or note to any line in this Part V			
			Yes	No
	Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable 1a 51			
	Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable			
С	Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming		77	
	(gambling) winnings to prize winners?	1c	X	<u> </u>

Part V Statements Regarding Other IRS Filings and Tax Compliance (continued)

			Yes	No
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	3		
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns?	2b	X	
	Note: If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)			
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?	За		X
b	If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation on 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		X
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).			١
	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a	-	X
	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b	-	Х
	If "Yes" to line 5a or 5b, did the organization file Form 8886-T?	5c		
ьа	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit			X
h	any contributions that were not tax deductible as charitable contributions? If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts	6a		12
D		6b		
7	were not tax deductible? Organizations that may receive deductible contributions under section 170(c).	OD		
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	Х	
	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b	Х	
	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required			
	to file Form 8282?	7c		X
d	If "Yes," indicate the number of Forms 8282 filed during the year 7d			
е	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e		Х
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f		X
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g		
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h		
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		
9	Sponsoring organizations maintaining donor advised funds.			
a	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 b	Initiation fees and capital contributions included on Part VIII, line 12	-		
11	Section 501(c)(12) organizations. Enter:	-		
	Gross income from members or shareholders			
	Gross income from other sources (Do not net amounts due or paid to other sources against			
	amounts due or received from them.)			
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a		
	If "Yes," enter the amount of tax-exempt interest received or accrued during the year			
13	Section 501(c)(29) qualified nonprofit health insurance issuers.			
а	Is the organization licensed to issue qualified health plans in more than one state?	13a		
	Note: See the instructions for additional information the organization must report on Schedule O.			
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	4		
	Enter the amount of reserves on hand	+		V
	Did the organization receive any payments for indoor tanning services during the tax year?		-	X
	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation on Schedule O	14b		-
15	Is the organization subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or			X
	excess parachute payment(s) during the year?	15		A
16	If "Yes," see instructions and file Form 4720, Schedule N. Is the organization an educational institution subject to the section 4968 excise tax on net investment income?	16		Х
10	If "Yes," complete Form 4720, Schedule O.	10		<u> </u>
	ii 100, Somplete i Similariza, Contodulo C.	Eorr	. 000	/2010

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

	Check if Schedule O contains a response or note to any line in this Part VI			X					
Sec	tion 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	4							
	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 on Schedule O.								
b	Enter the number of voting members included on line 1a, above, who are independent	2							
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?	2		X					
3	Did the organization delegate control over management duties customarily performed by or under the direct supervision								
	of officers, directors, trustees, or key employees to a management company or other person?	3		X					
4	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?	4		Х					
5	Did the organization become aware during the year of a significant diversion of the organization's assets?	5		Х					
6	Did the organization have members or stockholders?	6		Х					
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?	7a		X					
b	Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or								
	persons other than the governing body?	7b		X					
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:								
а	The governing body?	8a	X						
b	Each committee with authority to act on behalf of the governing body?	8b	X						
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 on Schedule O	9		X					
Sec	tion 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?	10a		X					
b	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	A Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?								
b	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	12a	X						
b	Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	12b	X						
С	Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe								
	in Schedule O how this was done	12c	X						
13	Did the organization have a written whistleblower policy?	13	X						
14	Did the organization have a written document retention and destruction policy?	14	X						
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?								
	The organization's CEO, Executive Director, or top management official	15a	X	<u> </u>					
b	Other officers or key employees of the organization	15b		X					
	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?	16a		X					
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?	16b							
Sec	tion C. Disclosure								
17	List the states with which a copy of this Form 990 is required to be filed ► NONE								
18	Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A, if applicable), 990, and 990-T (Section 501(c)(3)	3)s only	/) avai	lable					
	for public inspection. Indicate how you made these available. Check all that apply.								
	X Own website Another's website X Upon request Other (explain on Schedule O)								
19									
	statements available to the public during the tax year.								
20	, , , , , , , <u>, , , , , , , , , , , , </u>								
	ANNE LABRUZZO - 928-233-3239								
	1400 W. MARS HILL ROAD, FLAGSTAFF, AZ 86001-4470								

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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, and 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.

See instructions for the order in which to list the persons above.

(A)	(B)	Docition				1		(D)	(E)	(F)
Name and title	Average hours per		(do not check more t box, unless person is			re than one		Reportable compensation	Reportable compensation	Estimated amount of
	week	offi	officer and a director			or/trustee)		from	from related	other
	(list any	ector						the	organizations	compensation
	hours for	or dir	8			ated		organization	(W-2/1099-MISC)	from the
	related organizations	rustee	trust		e e	nbens		(W-2/1099-MISC)		organization and related
	below	Individual trustee or director	Institutional trustee	_	Key employee	est col	er			organizations
	line)	Indivi	Instit	Officer	Key e	Highest compensated employee	Former			
(1) PUTNAM, W. LOWELL	30.00								_	
TRUSTEE - SOLE		Х		Х				71.	0.	8,567
(2) HALL, JEFFREY C.	40.00			l				105 511	•	45 050
DIRECTOR	26.00			Х	_			186,611.	0.	17,858
(3) LABRUZZO, ANNE	36.00							120 112	0	15 045
DEPUTY DIRECTOR FOR ADMINISTRATION	4.00		_	Х	<u> </u>			139,113.	0.	17,045
(4) SCHLEICHER, DAVID	40.00	-				х		151 552	0.	16 407
ASTRONOMER (5) MASSEY, PHILIP	40.00					Λ		151,552.	0.	16,407
ASTRONOMER	40.00	-				Х		155,163.	0.	16,723
(6) HUNTER, DEIDRE	40.00					77		155,105.	0.	10,725
ASTRONOMER	1000	1				х		146,279.	0.	17,814
(7) WEST, MICHAEL	40.00									
DEPUTY DIRECTOR FOR SCIENCE		1				Х		150,949.	0.	8,584
(8) ACTOR, ANNE T.	38.00									-
DEPUTY DIRECTOR FOR DEVELOPMENT	2.00	_	_	_		Х		147,724.	0.	16,300
		_								
		-								
		\vdash		\vdash						
		1								

Pa	Fart VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)													
	(A)	(B)			-	C)			(D)	(E)			(F)	
	Name and title	Average	(do		Pos heck) than	one	Reportable	Reportable	•	Es	stimate	∍d
		hours per week					is bot or/trus		compensation	compensation		ar	nount	of
		(list any	\vdash					T	from the	from relate organizatior	- 1	oom	other	tion
		hours for	Individual trustee or director				,		organization	(W-2/1099-MI			pensa om th	
		related	ee or	stee			nsate		(W-2/1099-MISC)	(** 2) 1000 ***			anizat	
		organizations	trust	ıal tru		yee	ompe					an	d relat	ed
		below	vidua	Institutional trustee	Ser	sey employee	Highest compensated employee	Former				orga	anizati	ons
		line)	Indi	Insti	Officer	Key	High	윤						
			-											
						<u> </u>	\vdash	\vdash			\longrightarrow			
			1											
							t				\neg			
							\vdash				\longrightarrow			
							_				\longrightarrow			
			-											
											\neg			
	Cubtatal								1,077,462.		0.	11	9,2	9.8
	Subtotal Total from continuation sheets to Part VI								0.		0.		7,4	0.
	Total from continuation sheets to Part VI Total (add lines 1b and 1c)								1,077,462.		0.	11	9,2	
2	Total number of individuals (including but n									L 0.000 of reportab			<i>-</i>	
_	compensation from the organization	iot iii iii ii od to ti	1000		Ju u		o,	10 1		,,000 01 10001141	,,,,			18
													Yes	No
3	Did the organization list any former officer,	director, trust	ee, l	кеу (emp	loye	e, o	r hic	ghest compensated emp	oloyee on	[
	line 1a? If "Yes," complete Schedule J for s	uch individual			·					•		3		Х
4	For any individual listed on line 1a, is the su													
	and related organizations greater than \$150	0,000? <i>If</i> "Yes,	" co	mpl	ete S	Sche	edul	e J t	for such individual			4	Х	
5	Did any person listed on line 1a receive or a	accrue compe	nsat	ion 1	from	any	y uni	elat	ted organization or indivi	idual for services	3			
	rendered to the organization? If "Yes," com											5		Х
Sec	ction B. Independent Contractors													
1	Complete this table for your five highest co										npens	ation	from	
	the organization. Report compensation for	the calendar y	ear	endi	ng v	vith	or w	ithir '		year.				
	(A) Name and business	address							(B) Description of s	ervices	С	(C) compensation		
BU	ILDING & ENGINEERING CO		OR!	3 9	SOT	וידַע	HWI	ΞS						
	O. BOX 30458, FLAGSTAFF, AZ 86003 CONSTRUCTION 3,260,523.													

(A)
Name and business address

BUILDING & ENGINEERING CONTRACTORS SOUTHWES
P.O. BOX 30458, FLAGSTAFF, AZ 86003

JOHNSON WALZER ASSOCIATES, LLC, 17 N. SAN
FRANCISCO STREET, STE 3A, FLAGSTAFF, AZ CONSTRUCTION

TWILIGHT JANITORIAL SERVICE, INC., 506 N.
GRANT STREET, STE D, FLAGSTAFF, AZ 86004

Total number of independent contractors (including but not limited to those listed above) who received more than

Form **990** (2019)

15580624 759078 16383

\$100,000 of compensation from the organization

Form 990 (2019) LOWELL
Part VIII Statement of Revenue

ı a	IL VI			rooponoo	or note to any lin	o in this Dort VIII			
		Check if Schedule O	ontains a	response	or note to any iin	(A)	(B)	(C)	(D)
						Total revenue	Related or exempt function revenue	Unrelated	Revenuè excluded
ts ts	1:	a Federated campaigns		1a					
Contributions, Gifts, Grants and Other Similar Amounts				1b	339,265.				
, E		c Fundraising events		1c					
ar /		d Related organizations		1d	1,010,255.				
s, G		e Government grants (contri		1e	2,567,102.				
ioi		f All other contributions, gifts, ç		-					
but		similar amounts not included		1f	18,515,431.				
Öğ		g Noncash contributions included in		1g \$	2,430,629.				
an Co		h Total. Add lines 1a-1f				22,432,053.			
\neg					Business Code	· · ·			
e l	2 8	a TELESCOPE ACCESS FER	ES		541700	2,376,660.	2,376,660.		
Program Service Revenue	- k	b EDUCATIONAL PROGRAMS	S		611600	1,187,696.	1,187,696.		
Se		c RESEARCH - GOVERNMEN	NT CONTE	RACTS	541700	709,042.	709,042.		
eve	(d							
ogr	•	e							
ᇫ	f	f All other program service r	revenue						
	ç	g Total. Add lines 2a-2f				4,273,398.			
	3	Investment income (includ	ding divide	ends, intere	est, and				
		other similar amounts)			▶	9,825.			9,825.
	4	Income from investment o	of tax-exen	npt bond p	roceeds >				
	5	Royalties			>				
			(i) Real	(ii) Personal				
	6 a	a Gross rents	6a						
	k	b Less: rental expenses	6b						
	(c Rental income or (loss)	6c						
	(d Net rental income or (loss)	-						
	7 a	a Gross amount from sales of	<u>''</u>	Securities	(ii) Other				
		assets other than inventory	7a 2,	449,779.	56,500.				
	k	b Less: cost or other basis							
nue		and sales expenses	-	441,135.	0.				
e ve		. ,		008,644.	56,500.				
er Revenue		d Net gain or (loss)			>	2,065,144.			2,065,144.
	8 8	a Gross income from fundraisin	ng events (r	not					
₹		including \$		of of					
		contributions reported on	,	I					
		Part IV, line 18							
		b Less: direct expenses							
		c Net income or (loss) from t		_					
	9 8	a Gross income from gaming							
		Part IV, line 19							
		b Less: direct expenses							
		c Net income or (loss) from (
	10 8	a Gross sales of inventory, le			646,260.				
	ı	and allowancesb Less: cost of goods sold							
					327,040.	318,612.	318,612.		
-		c Net income or (loss) from s	saics UI III	ventory	Business Code	313,012.	310,012.		
snc	11 -	a MISCELLANEOUS INCOME	E		900099	122,488.	122,488.		
Miscellaneous Revenue		b	_		30000		122,100.		
ella ve		C							
ISC Re		d All other revenue							
Σ		e Total. Add lines 11a-11d				122,488.			
	12	Total revenue. See instructio				29,221,520.	4,714,498.	0.	2,074,969.

932009 01-20-20

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 respor			7.51	/D)
	not include amounts reported on lines 6b, 8b, 9b, and 10b of Part VIII.	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
1	Grants and other assistance to domestic organizations	010 055	010 055		
	and domestic governments. See Part IV, line 21	819,057.	819,057.		
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, lines 15 and 16				
4	Benefits paid to or for members				
5	Compensation of current officers, directors,	260 265	(2, (20)	260 561	20 076
	trustees, and key employees	369,265.	62,628.	268,561.	38,076
6	Compensation not included above to disqualified				
	persons (as defined under section 4958(f)(1)) and				
	persons described in section 4958(c)(3)(B)	6 100 260	4 000 000	650 050	604 000
7	Other salaries and wages	6,190,369.	4,908,282.	658,058.	624,029
8	Pension plan accruals and contributions (include	070 400	014 041	24 505	05 055
	section 401(k) and 403(b) employer contributions)	272,423.	214,941.	31,505.	25,977
9	Other employee benefits	573,718.	450,898.	67,186.	55,634
10	Payroll taxes	463,409.	349,740.	69,424.	44,245
11	Fees for services (nonemployees):				
а	Management	00 504	5 242	45.044	
b	Legal	20,581.	5,340.	15,241.	
С	Accounting	48,760.		48,760.	
d	Lobbying				
е	Professional fundraising services. See Part IV, line 17				
f	Investment management fees	970.		970.	
g	Other. (If line 11g amount exceeds 10% of line 25,				
	column (A) amount, list line 11g expenses on Sch O.)	174,847.	72,383.	67,640.	34,824
12	Advertising and promotion	220,397.	155,027.		65,370
13	Office expenses	493,084.	372,486.	55,226.	65,372
14	Information technology	158,418.	52,706.	50,903.	54,809
15	Royalties				
16	Occupancy	605,850.	575,353.	19,102.	11,395
17	Travel	342,001.	239,974.	51,625.	50,402
18	Payments of travel or entertainment expenses				
	for any federal, state, or local public officials				
19	Conferences, conventions, and meetings	115,150.	24,731.	35,606.	54,813
20	Interest	68,089.	68,089.		
21	Payments to affiliates	4 6 5 6 5 6	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
22	Depreciation, depletion, and amortization	1,953,727.	1,898,164.	35,411.	20,152
23	Insurance	327,971.	323,518.	3,278.	1,175
24	Other expenses. Itemize expenses not covered above (List miscellaneous expenses on line 24e. If line 24e amount exceeds 10% of line 25, column (A)				
	amount, list line 24e expenses on Schedule 0.)				
а	INTERCOMPANY REIMBURSEM	633,676.	633,676.		
b	REPAIRS AND MAINTENANCE	157,223.	149,691.	6,130.	1,402
С	TRAINING AND DEVELOPMEN	115,606.	49,471.	63,333.	2,802
d	DUES AND SUBSCRIPTIONS	82,253.	57,862.	23,225.	1,166
е	All other expenses	140,073.	76,153.	16,202.	47,718
25	Total functional expenses. Add lines 1 through 24e	14,346,917.	11,560,170.	1,587,386.	1,199,361
26	Joint costs. Complete this line only if the organization				
	reported in column (B) joint costs from a combined				
	educational campaign and fundraising solicitation.				
	oddoddonar odrifpargir and randralonig obilotation.				

Pa	rt X	Balance Sheet				
		Check if Schedule O contains a response or note to	any line in this Part X .			
				(A) Beginning of year		(B) End of year
	1	Cash - non-interest-bearing		210,694.		133,267.
	2	Savings and temporary cash investments		234,343.		1,929,990.
	3	Pledges and grants receivable, net		2,060,984.		13,030,741.
	4	Accounts receivable, net			4	8,383.
	5	Loans and other receivables from any current or for				
		trustee, key employee, creator or founder, substant	al contributor, or 35%			
		controlled entity or family member of any of these p	ersons		5	
	6	Loans and other receivables from other disqualified	persons (as defined			
		under section 4958(f)(1)), and persons described in	section 4958(c)(3)(B)		6	
sts	7	Notes and loans receivable, net		7		
Assets	8	Inventories for sale or use	83,530.		92,423. 103,221.	
⋖	9	Prepaid expenses and deferred charges		153,267.	9	103,221.
	10a	Land, buildings, and equipment: cost or other				
		basis. Complete Part VI of Schedule D 10	72,622,76	44 055 000		40 256 606
	b	Less: accumulated depreciation 10			+	48,356,606.
	11	Investments - publicly traded securities		_	1,005,946.	
	12	Investments - other securities. See Part IV, line 11		12		
	13	Investments - program-related. See Part IV, line 11		13	60 726	
	14	Intangible assets		14	60,736.	
	15	Other assets. See Part IV, line 11	1 40 000 040	_	424,012.	
	16	Total assets. Add lines 1 through 15 (must equal lin		100 11		65,145,325. 428,132.
	17	Accounts payable and accrued expenses			_	420,132.
	18	Grants payable		18	7,514,979.	
	19	Deferred revenue			20	7,314,373.
	20	Tax-exempt bond liabilities			21	
"	22	Escrow or custodial account liability. Complete Part			21	
Liabilities	22	Loans and other payables to any current or former of				
iliq		trustee, key employee, creator or founder, substant controlled entity or family member of any of these p			22	
Ë	23	Secured mortgages and notes payable to unrelated		7 400 707		2,595,000.
	24	Unsecured notes and loans payable to unrelated th		****	24	2/3/3/0000
	25	Other liabilities (including federal income tax, payab			2-7	
		parties, and other liabilities not included on lines 17				
		of Schedule D		750,000.	25	10,201,020.
	26	Total liabilities. Add lines 17 through 25		16,568,732.		20,739,131.
		Organizations that follow FASB ASC 958, check	nere X			
ces		and complete lines 27, 28, 32, and 33.				
lan	27	Net assets without donor restrictions		27,968,589.	27	28,859,141.
Ва	28	Net assets with donor restrictions			28	15,547,053.
pur		Organizations that do not follow FASB ASC 958,				
Ę		and complete lines 29 through 33.				
0 8	29	Capital stock or trust principal, or current funds			29	
sel	30	Paid-in or capital surplus, or land, building, or equip			30	
Net Assets or Fund Balances	31	Retained earnings, endowment, accumulated incom	ne, or other funds		31	
Ne	32	Total net assets or fund balances		31,493,916.	32	44,406,194.
	33	Total liabilities and net assets/fund balances		1 40 000 040	33	65,145,325.
						Form 990 (2019)

Pa	rt XI Reconciliation of Net Assets					<u>, - </u>		
	Check 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	29	,22	1,5	20.		
2	Total expenses (must equal Part IX, column (A), line 25)	2	14	,34	6,9	17.		
3	Revenue less expenses. Subtract line 2 from line 1	3	14	4,874,603				
4	Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A))	4		1,493,916				
5	1							
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 on Schedule O)	9				0.		
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 32,							
	column (B))	10	44	,40	6,1	94.		
Pa	rt XII Financial Statements and Reporting							
	Check 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 X Accrual Other							
	If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule							
2a	Were the organization's financial statements compiled or reviewed by an independent accountant?			2a		X		
	If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed	d on a						
	separate basis, consolidated basis, or both:							
	Separate basis Consolidated basis Both consolidated and separate basis							
b	Were the organization's financial statements audited by an independent accountant?			2b	X			
	If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate	e basis,						
	consolidated basis, or both:							
	Separate basis X Consolidated basis Both consolidated and separate basis							
С	If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the							
	review, or compilation of its financial statements and selection of an independent accountant?			2c	X			
	If the organization changed either its oversight process or selection process during the tax year, explain on Sci							
3а	As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Si	ngle Auc	lit					
	Act and OMB Circular A-133?			3a	X			
b	If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the requ				37			
	or audits, explain why on Schedule O and describe any steps taken to undergo such audits			3b	X			

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.

► Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

Open to Public Inspection

Employer identification number Name of the organization LOWELL OBSERVATORY 86-0098918 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). 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: 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.) A federal, state, or local government or governmental unit described in section 170(b)(1)(A)(v). 7 X 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.) An agricultural research organization described in section 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. 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. 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. 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. ☐ 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. Check this box if the organization received a written determination from the IRS that it is a Type I, Type III, Type III functionally integrated, or Type III non-functionally integrated supporting organization. f Enter the number of supported organizations Provide the following information about the supported organization(s). (iv) Is the organization listed (i) Name of supported (ii) EIN (iii) Type of organization (v) Amount of monetary (vi) Amount of other in your governing document? (described on lines 1-10 organization support (see instructions) support (see instructions) Yes No above (see instructions))

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, or 8 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.)

Se	ction A. Public Support	, ,,					
	endar year (or fiscal year beginning in)	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(f) Total
	Gifts, grants, contributions, and	(-,	(-)	(-/	(-,	(-,	(-)
	membership fees received. (Do not						
	include any "unusual grants.")	3,697,510.	7,675,056.	17,637,617.	11,300,816.	22,432,053.	62,743,052.
2	Tax revenues levied for the organ-						
	ization'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	118,000.	119,000.	120,000.	121,000.	122,000.	600,000.
4	Total. Add lines 1 through 3	3,815,510.	7,794,056.	17,757,617.	11,421,816.	22,554,053.	63,343,052.
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)						15,992,027.
	Public support. Subtract line 5 from line 4.						47,351,025.
Se	ction B. Total Support						
Cale	endar year (or fiscal year beginning in)	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(f) Total
7	Amounts from line 4	3,815,510.	7,794,056.	17,757,617.	11,421,816.	22,554,053.	63,343,052.
8	Gross income from interest,						
	dividends, payments received on						
	securities loans, rents, royalties,	440 0-0					
	and income from similar sources	110,959.	37,614.	3,661.	2,268.	9,825.	164,327.
9	Net income from unrelated business						
	activities, whether or not the	20 500	44 252				00 050
	business is regularly carried on	39,509.	41,370.				80,879.
10	Other income. Do not include gain						
	or loss from the sale of capital						
	assets (Explain in Part VI.)						
11	Total support. Add lines 7 through 10						63,588,258.
12	'	•	,				,903,517.
13	First five years. If the Form 990 is for	-	s first, second, thir	d, fourth, or fifth ta	ax year as a sectio	n 501(c)(3)	
<u>S</u>	organization, check this box and stor ction C. Computation of Publ		rcentage				_
	<u>-</u>			- h (f)		44	74.47 %
	Public support percentage for 2019 (15	01 04
	Public support percentage from 2018						
102	33 1/3% support test - 2019. If the c						
ı	stop here. The organization qualifies 33 1/3% support test - 2018. If the o						
17-	and stop here. The organization qual 10% -facts-and-circumstances tes						
1/6	and if the organization meets the "fac						
	meets the "facts-and-circumstances"			-	•	-	
L	10% -facts-and-circumstances tes						
ı.	more, and if the organization meets the	-					
	organization meets the "facts-and-circ						
18	Private foundation. If the organization						
	The state of the s	<u></u>		, ,		edule A (Form 990	

932022 09-25-19

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.)

Se	ction A. Public Support						_
Cale	ndar year (or fiscal year beginning in) 🖊	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(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 per-						
	formed, 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 bus-						
	iness under section 513						
4	Tax revenues levied for the organ-						
	ization'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						
	Amounts included on lines 1, 2, and						
	3 received from disqualified persons						
k	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						
(Add lines 7a and 7b						
	Public support. (Subtract line 7c from line 6.)						
	ction B. Total Support						
Cale	ndar year (or fiscal year beginning in) 🖊	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(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						
k	Unrelated business taxable income						
	(less section 511 taxes) from businesses						
	acquired after June 30, 1975						
(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	s first, second, thir	d, fourth, or fifth t	ax year as a sectio	on 501(c)(3) organ	nization,
	check this box and stop here						>
	ction C. Computation of Publi						
15	Public support percentage for 2019 (li	ne 8, column (f), c	divided by line 13,	column (f))		15	%
	Public support percentage from 2018					16	%
	ction D. Computation of Inves						
	Investment income percentage for 20					17	<u>%</u>
	Investment income percentage from 2					18	%
198	a 33 1/3% support tests - 2019. If the	organization did n	not check the box	on line 14, and line	e 15 is more than 3	33 1/3%, and line	17 is not
	more than 33 1/3%, check this box ar	nd stop here. The	organization quali	fies as a publicly s	supported organiza	ation	▶□
k	33 1/3% support tests - 2018. If the						
	line 18 is not more than 33 1/3%, che	ck this box and st	op here. The orga	nization qualifies a	as a publicly suppo	orted organizatio	ր ▶∐
20	Private foundation. If the organizatio	n did not check a	box on line 14, 19	a, or 19b, check t	his box and see in:	structions	▶□

Part IV | Supporting Organizations

(Complete only if you checked a box in line 12 on 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

- 1 Are all of the organization's supported organizations listed by name in the organization's governing documents? 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.
- 2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? If "Yes," explain in **Part VI** how the organization determined that the supported organization was described in section 509(a)(1) or (2).
- 3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? If "Yes," answer (b) and (c) below.
- **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)? If "Yes," describe in **Part VI** when and how the organization made the determination.
- c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? If "Yes," explain in Part VI what controls the organization put in place to ensure such use.
- 4a Was any supported organization not organized in the United States ("foreign supported organization")? If "Yes," and if you checked 12a or 12b in Part I, answer (b) and (c) below.
- **b** Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? 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.
- 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)? 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.
- 5a Did the organization add, substitute, or remove any supported organizations during the tax year? 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).
- **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?
- c Substitutions only. Was the substitution the result of an event beyond the organization's control?
- 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? If "Yes," provide detail in Part VI.
- 7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (as 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? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).
- 8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).
- **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))? If "Yes," provide detail in **Part VI.**
- **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? If "Yes," provide detail in Part VI.
- 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? If "Yes," provide detail in Part VI.
- 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)? If "Yes," answer 10b below.
 - **b** Did the organization have any excess business holdings in the tax year? (Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)

1		Yes	No
2 3a 3b 3c 4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c			
2 3a 3b 3c 4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c	1		
3a 3b 3c 4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c			
3a 3b 3c 4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c	2		
3b 3c 4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c			
3c 4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c	За		
3c 4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c			
4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c	3b		
4a 4b 4c 5a 5b 5c 6 7 8 9a 9b 9c			
4b 4c 5a 5b 5c 6 7 8 9a 9b 9c	3с		
4b 4c 5a 5b 5c 6 7 8 9a 9b 9c			
4c 5a 5b 5c 6 7 8 9a 9b 9c	4a		
4c 5a 5b 5c 6 7 8 9a 9b 9c			
5a 5b 5c 6 7 8 9a 9b 9c	4b		
5a 5b 5c 6 7 8 9a 9b 9c			
5a 5b 5c 6 7 8 9a 9b 9c	4c		
5b 5c 6 7 8 9a 9b 9c			
5b 5c 6 7 8 9a 9b 9c			
5c 6 7 8 9a 9b 9c 10a	5a		
5c 6 7 8 9a 9b 9c 10a	5b		
6 7 8 9a 9b 9c 10a			
7 8 9a 9b 9c			
9a 9b 9c	6		
9a 9b 9c			
9a 9b 9c	7		
9a 9b 9c			
9b 9c 10a	8		
9b 9c 10a			
9c 10a	9a		
10a	9b		
10a			
	9с		
10b	10a		
	10b		

Pa	rt IV Supporting Organizations _(continued)			
	(STIMILES)		Yes	No
11	Has the organization accepted a gift or contribution from any of the following persons?			
а	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?	11a		
b	A family member of a person described in (a) above?	11b		
	A 35% controlled entity of a person described in (a) or (b) above? If "Yes" to a, b, or c, provide detail in Part VI.	11c		
	tion 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? 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.	1		
2		_ •		
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? If "Yes," explain in			
	Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated,			
800	supervised, or controlled the supporting organization.	2		
Sec	tion 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)? If "No," describe in Part VI how control			
	or management of the supporting organization was vested in the same persons that controlled or managed			
0	the supported organization(s).	1		
Sec	tion 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? If "No," explain in Part VI how			
	the organization maintained a close and continuous working relationship with the supported organization(s).	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? If "Yes," describe in Part VI the role the organization's			
	supported organizations played in this regard.	3		
Sec	tion 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 yea(see instructions)	-		
а	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.			
С	The organization supported a governmental entity. Describe in Part VI how you supported a government entity (see ins	tructions		
2	Activities Test. Answer (a) and (b) below.		Yes	No
а	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? 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.	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? 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.	2b		
3	Parent of Supported Organizations. Answer (a) and (b) below.			
а	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? Provide details in Part VI.	3a		
b				
	of its supported organizations? If "Yes," describe in Part VI the role played by the organization in this regard.	3b		

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Pa	rt V Type III Non-Functionally Integrated 509(a)(3) Supportin	g Orga	anizations	
1	Check here if the organization satisfied the Integral Part Test as a qualifying	g trust c	n Nov. 20, 1970 (explain in	Part VI). See instructions. Al
	other Type III non-functionally integrated supporting organizations must co	mplete	Sections A through E.	
Sect	ion 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		
Sect	ion 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):			
а	Average monthly value of securities	1a		
b	Average monthly cash balances	1b		
С	Fair market value of other non-exempt-use assets	1c		
d	Total (add lines 1a, 1b, and 1c)	1d		
е	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		
Sect	ion 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-functional	y integr	ated Type III supporting org	ganization (see
	instructions).			

Schedule A (Form 990 or 990-EZ) 2019

Pai	rt V Type III Non-Functionally Integrated 509	(a)(3) Supporting Orga	anizations _(continued)	
Secti	ion D - Distributions	Current Year		
1	Amounts paid to supported organizations to accomplish exe			
2	Amounts paid to perform activity that directly furthers exem			
	organizations, in excess of income from activity			
3	Administrative expenses paid to accomplish exempt purpos	es of supported organization	S	
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 t	he organization is responsive	9	
	(provide details in Part VI). See instructions.			
9	Distributable amount for 2019 from Section C, line 6			
10	Line 8 amount divided by line 9 amount			
Secti	ion E - Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2019	(iii) Distributable Amount for 2019
1	Distributable amount for 2019 from Section C, line 6			
2	Underdistributions, if any, for years prior to 2019 (reason-			
	able cause required- explain in Part VI). See instructions.			
3	Excess distributions carryover, if any, to 2019			
а	From 2014			
b	From 2015			
С	From 2016			
d	From 2017			
е	From 2018			
f	Total of lines 3a through e			
	Applied to underdistributions of prior years			
h	Applied to 2019 distributable amount			
i	Carryover from 2014 not applied (see instructions)			
j	Remainder. Subtract lines 3g, 3h, and 3i from 3f.			
4	Distributions for 2019 from Section D,			
	line 7: \$			
а	Applied to underdistributions of prior years			
b	Applied to 2019 distributable amount			
С	Remainder. Subtract lines 4a and 4b from 4.			
5	Remaining underdistributions for years prior to 2019, if			
	any. Subtract lines 3g and 4a from line 2. For result greater			
	than zero, explain in Part VI. See instructions.			
6	Remaining underdistributions for 2019. Subtract lines 3h			
	and 4b from line 1. For result greater than zero, explain in			
	Part VI. See instructions.			
7	Excess distributions carryover to 2020. Add lines 3j			
	and 4c.			
8	Breakdown of line 7:			
	Excess from 2015			
	Excess from 2016			
	Excess from 2017			
	Excess from 2018			
	Excess from 2019			
	LACCCO			

Schedule A (Form 990 or 990-EZ) 2019

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.
	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.)
-	
-	
-	

Schedule B

(Form 990, 990-EZ, or 990-PF)

Department of the Treasury Internal Revenue Service

Schedule of Contributors

➤ Attach to Form 990, Form 990-EZ, or Form 990-PF.

➤ Go to www.irs.gov/Form990 for the latest information.

2010

OMB No. 1545-0047

Name of the organization

Organization type (check one):

Employer identification number

LOWELL OBSERVATORY 86-0098918

Filers of:	Section:						
Form 990 or 990-EZ	$\overline{\mathbf{X}}$ 501(c)(3) (enter number) organization						
	4947(a)(1) nonexempt charitable trust not treated as a private foundation						
527 political organization							
Form 990-PF	501(c)(3) exempt private foundation						
	4947(a)(1) nonexempt charitable trust treated as a private foundation						
	501(c)(3) taxable private foundation						
, ,	is covered by the General Rule or a Special Rule.)(7), (8), or (10) organization can check boxes for both the General Rule and a Special Rule. See instructions.						
General Rule							
	on filing Form 990, 990-EZ, or 990-PF that received, during the year, contributions totaling \$5,000 or more (in money or yone contributor. Complete Parts I and II. See instructions for determining a contributor's total contributions.						
Special Rules							
sections 509(a)(1) any one contribut	For an organization described in section 501(c)(3) filing Form 990 or 990-EZ that met the 33 1/3% support test of the regulations under sections 509(a)(1) and 170(b)(1)(A)(vi), that checked Schedule A (Form 990 or 990-EZ), Part II, line 13, 16a, or 16b, and that received from any one contributor, during the year, total contributions of the greater of (1) \$5,000; or (2) 2% of the amount on (i) Form 990, Part VIII, line 1h; or (ii) Form 990-EZ, line 1. Complete Parts I and II.						
For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, total contributions of more than \$1,000 exclusively for religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals. Complete Parts I, II, and III.							
For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, contributions exclusively for religious, charitable, etc., purposes, but no such contributions totaled more than \$1,000. If this box is checked, enter here the total contributions that were received during the year for an exclusively religious, charitable, etc., purpose. Don't complete any of the parts unless the General Rule applies to this organization because it received nonexclusively religious, charitable, etc., contributions totaling \$5,000 or more during the year \rightarrow \frac{1}{2} \frac{1}							
Caution: An organization that isn't covered by the General Rule and/or the Special Rules doesn't file Schedule B (Form 990, 990-EZ, or 990-PF), but it must answer "No" on Part IV, line 2, of its Form 990; or check the box on line H of its Form 990-EZ or on its Form 990-PF, Part I, line 2, to certify that it doesn't meet the filing requirements of Schedule B (Form 990, 990-EZ, or 990-PF).							

 $\ \, \text{LHA} \ \, \text{For Paperwork Reduction Act Notice, see the instructions for Form 990, 990-EZ, or 990-PF.}$

Schedule B (Form 990, 990-EZ, or 990-PF) (2019)

Name of organization Employer identification number

LOWELL OBSERVATORY

86-0098918

Part I	Contributors (see instructions). Use duplicate copies of Part I if additional	I space is needed.	
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
1		\$500,000.	Person X Payroll
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
2		\$ 570,107.	Person X Payroll X Noncash X (Complete Part II for noncash contributions.)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
3		\$ <u>13,991,000</u> .	Person X Payroll Noncash (Complete Part II for noncash contributions.)
(a)	(b)	(c)	(d)
	Name, address, and ZIP + 4	Total contributions \$ 2,073,305.	Person X Payroll Noncash (Complete Part II for noncash contributions.)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
5		\$ 999,037.	Person Payroll Noncash X (Complete Part II for noncash contributions.)
(a) No.	(b) Name, address, and ZIP + 4	(c) Total contributions	(d) Type of contribution
6		\$ 2,133,639.	Person X Payroll

Name of organization Employer identification number

LOWELL OBSERVATORY 86-0098918 Part I Contributors (see instructions). Use duplicate copies of Part I if additional space is needed. (a) (d) No. Name, address, and ZIP + 4 **Total contributions** Type of contribution 7 Person **Payroll** 709,042. Noncash (Complete Part II for noncash contributions.) (a) (b) (c) (d) Name, address, and ZIP + 4 Type of contribution No. **Total contributions** Person **Payroll** Noncash (Complete Part II for noncash contributions.) (d) (a) (b) (c) No. Name, address, and ZIP + 4 **Total contributions** Type of contribution Person **Payroll** Noncash (Complete Part II for noncash contributions.) (c) (d) (a) (b) **Total contributions** No. Name, address, and ZIP + 4 Type of contribution Person **Payroll** Noncash (Complete Part II for noncash contributions.) (b) (c) (a) (d) Type of contribution No. Name, address, and ZIP + 4 **Total contributions** Person Payroll Noncash (Complete Part II for noncash contributions.) (a) (b) (c) (d) Name, address, and ZIP + 4 **Total contributions** Type of contribution No. Person

Payroll
Noncash
(Complete Part II for noncash contributions.)

Name of organization Employer identification number

LOWELL OBSERVATORY

86-0098918

Part II	Noncash Property (see instructions). Use duplicate copies of Part	II if additional space is needed.	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
2	34 SHARES OF MASTERCARD INC	_	
		\$10,107.	12/23/19
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
5	4900 SHARES BERKSHIRE HATHAWAY	_	
		999,037.	04/05/19
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
		_	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
		_	
		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
		_	
		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions.)	(d) Date received
		_	
000450 11 0		<u> </u>	000 000 FZ ~= 000 DE\ (0040\

Name of organization **Employer identification number** 86-0098918 LOWELL OBSERVATORY Part III Exclusively religious, charitable, etc., contributions to organizations described in section 501(c)(7), (8), or (10) that total more than \$1,000 for the year from any one contributor. Complete columns (a) through (e) and the following line entry. For organizations completing Part III, enter the total of exclusively religious, charitable, etc., contributions of \$1,000 or less for the year. (Enter this info. once.) Use duplicate copies of Part III if additional space is needed. (a) No. `fŕom Part I (b) Purpose of gift (c) Use of gift (d) Description of how gift is held (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee (a) No. from (b) Purpose of gift (c) Use of gift (d) Description of how gift is held Part I (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee (a) No. from (b) Purpose of gift (c) Use of gift (d) Description of how gift is held Part I (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee (a) No. from (b) Purpose of gift (c) Use of gift (d) Description of how gift is held Part I (e) Transfer of gift Transferee's name, address, and ZIP + 4 Relationship of transferor to transferee

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.

►Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047 Open to Public Inspection

Name of the organization

LOWELL OBSERVATORY

Employer identification number 86-0098918

Pai	Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts. Complete if the							
	organization answered "Yes" on Form 990, Part IV, lir	ne 6.		·				
		(a) Donor advised fund	ds	(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 fur	nds				
	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 a	advisors in writing that grant fu	nds can be used	only				
	for charitable purposes and not for the benefit of the donor of	or donor advisor, or for any oth	er purpose confe	rring				
Pai		-	Form 990, Part IV	, line 7.				
1	Purpose(s) of conservation easements held by the organizat	ion (check all that apply).						
	Preservation of land for public use (for example, recrea	ation or education)	servation of a histo	orically important land area				
	Protection of natural habitat	Pres	servation of a cert	ified historic structure				
	Preservation of open space							
2	Complete lines 2a through 2d if the organization held a quali	fied conservation contribution	in the form of a co					
	day of the tax year.			Held at the End of the Tax Year				
а	Total number of conservation easements			2a				
b				2b				
	Number of conservation easements on a certified historic str			2c				
d	Number of conservation easements included in (c) acquired							
_	listed in the National Register			2d				
3	Number of conservation easements modified, transferred, re	leased, extinguished, or termin	nated by the orgar	nization during the tax				
	year							
4	Number of states where property subject to conservation ea							
5	Does the organization have a written policy regarding the pe							
	violations, and enforcement of the conservation easements i							
6	Staff and volunteer hours devoted to monitoring, inspecting,	nandling of violations, and en	forcing conservati	on easements during the year				
7	Amount of expenses incurred in monitoring, inspecting, hand	dling of violations, and anforcin	a conconvotion of	ecoments during the year				
′	\$	ulling of violations, and emorcin	ig conservation ea	asements during the year				
8	Does each conservation easement reported on line 2(d) above	ve satisfy the requirements of	section 170(h)(/)(F	3)/i)				
Ü	and section 170(h)(4)(B)(ii)?	*						
9	In Part XIII, describe how the organization reports conservat							
	balance sheet, and include, if applicable, the text of the foot		•					
	organization's accounting for conservation easements.	note to the enganization of this						
Pai	t III Organizations Maintaining Collections o	f Art, Historical Treasu	res, or Other	Similar Assets.				
	Complete if the organization answered "Yes" on Form	n 990, Part IV, line 8.						
1a	If the organization elected, as permitted under FASB ASC 95	58, not to report in its revenue	statement and ba	lance sheet works				
	of art, historical treasures, or other similar assets held for pul	blic exhibition, education, or re	search in furthera	ince of public				
	service, provide in Part XIII the text of the footnote to its fina	ncial statements that describe	s these items.					
b	If the organization elected, as permitted under FASB ASC 95	58, to report in its revenue stat	ement and balanc	e sheet works of				
	art, historical treasures, or other similar assets held for public	c exhibition, education, or rese	arch in furtherand	e 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 tre							
	the following amounts required to be reported under FASB A	ASC 958 relating to these items	s:					
а	Revenue included on Form 990, Part VIII, line 1			. • \$				
b	Assets included in Form 990, Part X							
	For Paperwork Reduction Act Notice, see the Instruction			Schedule D (Form 990) 2019				

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Sche	dule D (Form 990) 2019 LOWELL (OBSERVATOR	Y					86-0	009	891	3 P	age 2
Pai	rt III Organizations Maintaining C	ollections of A	rt, Histo	orical Tre	easures, o	or Othe	er Simi	lar As	set	S(contir	ued)	
3	Using the organization's acquisition, accession	on, and other record	ls, check	any of the	following tha	t make s	ignificar	nt use of	its			
	collection items (check all that apply):											
а	X Public exhibition	d		oan or excl	nange progra	am						
b	Scholarly research	е	- O	ther								
С	Preservation for future generations											
4	Provide a description of the organization's co	ollections and explain	n how the	ey further th	ne organizati	on's exe	mpt pur	oose in F	Part 2	XIII.		
5	During the year, did the organization solicit o	r receive donations	of art, his	torical treas	sures, or oth	er similar	assets					
	to be sold to raise funds rather than to be ma									Yes	X	No
Pai	t IV Escrow and Custodial Arran								IV, lir	ne 9, or		
	reported an amount on Form 990, Part X, line 21.											
1a	Is the organization an agent, trustee, custodi	an or other intermed	diary for c	ontribution	s or other as	sets not	included	b				
	on Form 990, Part X?		-							Yes		No
b	If "Yes," explain the arrangement in Part XIII											
	, ,	·	3							Amount		
С	Beginning balance						1c	1				
	Additions during the year							1				
e	Distributions during the year							1				
f	Ending balance											
	Did the organization include an amount on Fo							1		Yes		No
	If "Yes," explain the arrangement in Part XIII.						•	'			\vdash	
Pai												
	Ziraevirient i ariaer complete ii	(a) Current year		ior year	(c) Two year		(d) Three	veare ha	ıck	(e) Four	Veare	hack
10	Paginning of year balance	26,558,269.		571,683.	39,62		` ,	221,78				304.
	Beginning of year balance	709,421.		467,872.		6,056.		254,99	-			,857.
b	Contributions	4,013,194.		781,866.		2,359.			-			,037. ,198.
C	Net investment earnings, gains, and losses	163,237.						174,57 809,00	_			, 834.
a	Grants or scholarships	103,237.	٠,	566,105.	11,73	2,320.		009,00	,,,,		100	,054.
е	Other expenditures for facilities							04 51	_			
_	and programs	100 200		122 215	1.0	4 600		94,51	-		105	240
f	Administrative expenses	120,308.		133,315.		4,609.		127,43	-			340.
g	End of year balance	30,997,339.		558,269.		1,683.	39,	620,40	13.	37	, 221 ,	,789.
2	Provide the estimated percentage of the curr			, column (a)) held as:							
а	Board designated or quasi-endowment	.00	_%									
b	Permanent endowment ► 19.07	%										
С	Term endowment ► 80.93 g											
	The percentages on lines 2a, 2b, and 2c sho	•										
3a	Are there endowment funds not in the posse	ssion of the organiza	ation that	are held a	nd administe	ered for t	ne orgar	ization				
	by:									\longrightarrow	Yes	No
	(i) Unrelated organizations									3a(i)		X
	(ii) Related organizations									3a(ii)	X	
b	If "Yes" on line 3a(ii), are the related organiza	tions listed as requir	red on Sc	hedule R?						3b	X	
4	Describe in Part XIII the intended uses of the		wment fu	ınds.								
Pai	rt VI Land, Buildings, and Equipm	ent.										
	Complete if the organization answered	d "Yes" on Form 990), Part IV,	line 11a. S	ee Form 990), Part X,	line 10.					
	Description of property	(a) Cost or o	ther	(b) Cost		(c) A	ccumula	ted	(d) Bool	k valu	е
		basis (investn	nent)	basis (dep	oreciatio	n				
1a	Land				3,088.					.,25		
	Buildings			23,57	2,685.	5,8	368,7	711.	17	7,70	3,9	74.
	Leasehold improvements			4,14	3,823.	3,0	35,5	03.		,10		
	Equipment			38,68	0,621.	14,4	156,8	329.	24	,22	3,7	92.
	Other			4,97	2,543.	2	905,1	111.		,06		

Schedule D (Form 990) 2019

4,067,432. 48,356,606.

Total. Add lines 1a through 1e. (Column (d) must equal Form 990, Part X, column (B), line 10c.)

Schedule D (Form 990) 2019 LOWELL OBSEF	RVATORY	86-	-0098918 Page 3
Part VII Investments - Other Securities.			
Complete if the organization answered "Yes" o			
(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)			
(B)			
(C)			
(D)			
(E)			
(F) (G)			
(H)			
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 12.)			
Part VIII Investments - Program Related.			
Complete if the organization answered "Yes" of	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)			<u> </u>
(2)			
(3)			
(4)			
(5)			
(6)			
(7)			
(8)			
(9)			
Total. (Col. (b) must equal Form 990, Part X, col. (B) line 13.) ▶			
Part IX Other Assets.			
Complete if the organization answered "Yes" of		11d. See Form 990, Part X, line 15.	
(a) D	escription		(b) Book value
(1)			
(2)			
(3)			
(4)			
(5)			
(6)			
(7)			
(8)			
(9)			
Total. (Column (b) must equal Form 990, Part X, col. (B) line Part X Other Liabilities.	15.)		
	- F 000 D+ IV/ I'	14 146 O Farma 200 Bart V. Bara 25	
Complete if the organization answered "Yes" of a Description of liability	on Form 990, Part IV, line	Tie or Tif. See Form 990, Part X, line 25.	(b) Book value
			(b) DOOR Value
(1) Federal income taxes (2) DUE TO PERCIVAL LOWELL TRU	JST UW		10,200,000
(3) DUE TO LOWELL OBSERVATORY			10,200,000
(4) FOUNDATION			1.020.

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 FASB ASC 740. Check here if the text of the footnote has been provided in Part XIII... X

Schedule D (Form 990) 2019

10,201,020.

(5) (6) (7) (8)

Par	TXI Reconciliation of Revenue per Audited Financial Stater	-	r Return.
	Complete if the organization answered "Yes" on Form 990, Part IV, line 12		
1	Total revenue, gains, and other support per audited financial statements		1
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12:		
а	Net unrealized gains (losses) on investments		
b	Donated services and use of facilities		
С	Recoveries of prior year grants		
d	Other (Describe in Part XIII.)	2d	
е	Add lines 2a through 2d		
3	Subtract line 2e from line 1		3
	Amounts included on Form 990, Part VIII, line 12, but not on line 1:	1 1	
	Investment expenses not included on Form 990, Part VIII, line 7b		
	Other (Describe in Part XIII.)	4b	
С	Add lines 4a and 4b		
5	Total revenue. Add lines 3 and 4c. (This must equal Form 990, Part I, line 12.)		
Par	t XII Reconciliation of Expenses per Audited Financial State	•	er Return.
	Complete if the organization answered "Yes" on Form 990, Part IV, line 12		
1	Total expenses and losses per audited financial statements		1
2	Amounts included on line 1 but not on Form 990, Part IX, line 25:		
a	Donated services and use of facilities		
b	Prior year adjustments		_
	Other losses		_
	Other (Describe in Part XIII.)	•	
_	Add lines 2a through 2d		
3	Subtract line 2e from line 1		3
	Amounts included on Form 990, Part IX, line 25, but not on line 1:	40	
	Investment expenses not included on Form 990, Part VIII, line 7b		_
	Other (Describe in Part XIII.) Add lines 4a and 4b		40
	Add lines 4a and 4b Total expenses. Add lines 3 and 4c . (This must equal Form 990, Part I, line 18.)		
	t XIII Supplemental Information.		3
	de the descriptions required for Part II, lines 3, 5, and 9; Part III, lines 1a and 4; Pa	art IV. lines 1b and 2b: Part V. li	ine 4: Part X. line 2: Part XI.
	2d and 4b; and Part XII, lines 2d and 4b. Also complete this part to provide any a		,
PAF	T V, LINE 4:		
THE	ENDOWMENT FUNDS ARE USED FOR SUPPORT OF	' LOWELL OBSERVA'	TORY AND FOR
REI	NVESTMENT.		
DAE	m v iine 2.		
PAR	T X, LINE 2:		
тнь	FOLLOWING DISCLOSURE IS RELATED TO THE	COMBINED FINANC	ТАТ. СТАТЕМЕНТС
1111	TODEOWING DIDEEODOKE IS KEENIED TO THE	COMBINED I INVINC.	IND SINIDMENTS
OF	THE LOWELL OBSERVATORY, TRUST U/W OF PER	CIVAL LOWELL. A	ND THE LOWELL
<u></u>			
OBS	ERVATORY FOUNDATION:		
THE	OBSERVATORY, THE FOUNDATION, AND THE TR	UST ARE EXEMPT	FROM INCOME
TAX	ES UNDER BOTH INTERNAL REVENUE CODE (IRC	SECTION 501(C)(3) AND ARIZONA
INC	OME TAX LAWS. THE OBSERVATORY IS CLASSI	FIED AS OTHER T	HAN A PRIVATE
932054	10-02-19		Schedule D (Form 990) 2019

Part XIII Supplemental Information (continued)
FOUNDATION UNDER IRC SECTION 509(A)(1). THE FOUNDATION AND THE TRUST ARE
EACH CLASSIFIED AS OTHER THAN A PRIVATE FOUNDATION UNDER IRC SECTION
509(A)(3) AS A SUPPORTING ORGANIZATION OF THE OBSERVATORY. INCOME FROM
CERTAIN ACTIVITIES NOT DIRECTLY RELATED TO THE ORGANIZATION'S TAX-EXEMPT
PURPOSE, HOWEVER, MAY BE SUBJECT TO TAXATION AS UNRELATED BUSINESS TAXABLE
INCOME (UBTI).
FROM TIME TO TIME, THE ORGANIZATION MAY BE SUBJECT TO PENALTIES AND
INTEREST ASSESSED BY VARIOUS TAXING AUTHORITIES, WHICH ARE CLASSIFIED AS
GENERAL AND ADMINISTRATIVE EXPENSES IF THEY OCCUR.

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.

2019
OMB No. 1545-0047
Open to Public Inspection

► Go to www.irs.gov/Form990 for the latest information.

Name of the organization LOWELL OB	LOWELL OBSERVATORY						Employer identification number $86-0098918$
Part I General Information on Grants and Assistance	and Assistance						
1 Does the organization maintain records to substantiate the amount of	to substantiate the		or assistance, the	grantees' eligibility	for the grants or ass	the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection	tion
criteria used to award the grants or assistance?	stance?						X Yes No
2 Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States	ocedures for moni	toring the use of grant	funds in the Unitec	d 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	Domestic Organi	izations and Domestic	Governments. Co	omplete if the orga	inization answered "Y	es" 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	\$5,000. Part II can	be duplicated if addition	onal space is need	led.			
1 (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, EMV, appraisal, other)	(g) Description of noncash assistance	(h) Purpose of grant or assistance
LOWELL OBSERVATORY FOUNDATION 1400 W. MARS HILL ROAD FLAGSTAFF, AZ 86001	47-2052113	501(C)(3)	12,374.	.0			TO FUND AN ENDOWMENT
LOWELL OBSERVATORY FOUNDATION 1400 W. MARS HILL ROAD FLAGSTAFF, AZ 86001	47-2052113	501(C)(3)	41,020.	.0			SUPPORT FOR OPERATIONS
PERCIVAL LOWELL TRUST 1400 W. MARS HILL ROAD FLAGSTAFF, AZ 86001	04-2007327	501(C)(3)	10,714.	.0			SUPPORT FOR OPERATIONS
MASSACHUSETTS INSTITUTE OF TECHNOLOGY - 77 MASSACHUSETTS AVENUE - CAMBRIDGE, MA 02139	04-2103594	501(C)(3)	38,911.	0			NASA GRANT - SUBAWARD COLLABORATION RESEARCH
NORTHERN ARIZONA UNIVERSITY P.O. BOX 4070 FLAGSTAFF, AZ 86011	74-2579628	STATE OF ARIZONA	338,482.	.0			NASA GRANT – SUBAWARD COLLABORATION RESEARCH
NORTHERN ARIZONA UNIVERSITY P.O. BOX 4070 FLAGSTAFF, AZ 86011	74-2579628	STATE OF ARIZONA	78,732.	.0			NSF GRANT - SUBAWARD COLLABORATION RESEARCH
	and government or		listed in the line 1 table				6
- 1	s listed in the line	1 table					• 0
LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.	, see the Instruct	tions for Form 990.					Schedule I (Form 990) (2019)

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Page 1

LOWELL OBSERVATORY

(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
NORTHERN ARIZONA UNIVERSITY P.O. BOX 4070 FLAGSTAFF, AZ 86011	74-2579628	STATE OF ARIZONA	32,235.	.0			DONOR FUNDS FOR PREDOCTORAL STUDENT SALARY
PLANETARY SCIENCE INSTITUTE 1700 E. FORT LOWELL, SUITE 106 TUCSON, AZ 85719	33-0175263	501(C)(3)	131,447.	.0			NASA GRANT - SUBAWARD COLLABORATION RESEARCH
PURDUE UNIVERSITY 155 S. GRANT STREET WEST LAFAYETTE, IN 47907	35-6002041	501(C)(3)	.086,6	.0			NASA GRANT – SUBAWARD COLLABORATION RESEARCH
UNIVERSITY OF MARYLAND - BALTIMORE COUNTY - 1000 HILLTOP CIRCLE - BALTIMORE, MD 21250	52-6002033	STATE OF MARYLAND	43,431.	.0			NASA GRANT - SUBAWARD COLLABORATION RESEARCH
UNIVERSITY OF MARYLAND 1104 ATLANTIC BLDG COLLEGE PARK, MD 20742	52-6002033	STATE OF MARYLAND	. 59,308.	.0			NASA GRANT - SUBAWARD COLLABORATION RESEARCH
UNIVERSITY OF PITTSBURGH 123 UNIVERSITY PLACE, B21 PITTSBURGH, PA 15213	25-0965591	501(C)(3)	22,423.	.0			NASA GRANT – SUBAWARD COLLABORATION RESEARCH
							Schedule I (Form 990)

Page 2

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. Part III

(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 noncash assistance
Part IV Supplemental Information. Provide the information required in		e 2; Part III, column	Part I, line 2; Part III, column (b); and any other additional information	ditional information.	
PART I, LINE 2: ALL GRANT RECIPIENTS ARE MAJOR UNIVERSITIES,	VERSITIE		WITH SOPHISTICATED) SYSTEMS FOR	
ADMINISTERING GRANTS. OBSERVATORY GRANTS	GRANTS	THE	UNIVERSITIES /	ARE PAID ON A	
COST REIMBURSEMENT BASIS. THE OBSERVATORY	- 1	PRINCIPAL	INVESTIGATOR	OR UNDER EACH	
AWARD CLOSELY COORDINATES RESEARCH	EFFORTS	WITH THE	UNIVERSITY	RECEIVING	
THE SUB AWARD AND REVIEWS EACH INV	INVOICE SUB	SUBMITTED BY	THE UNIVERSITY	SITY PRIOR TO	
PAYMENT.					

932102 10-26-19

Schedule I (Form 990) (2019)

SCHEDULE J (Form 990)

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.

► Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

Open to Public Inspection

Name of the organization

Department of the Treasury

Internal Revenue Service

LOWELL OBSERVATORY

Employer identification number 86-0098918

Pa	art 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 Housing allowance or residence for personal use			
	Travel for companions Payments for business use of personal residence			
	Tax indemnification and gross-up payments Health or social club dues or initiation fees			
	Discretionary spending account Personal services (such as maid, chauffeur, chef)			
b	If any of the boxes on 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	X	
2	Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors,			
	trustees, and officers, including the CEO/Executive Director, regarding the items checked on line 1a?	2	Х	
3	Indicate which, if any, of the following the 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 X Compensation survey or study			
	Form 990 of other organizations 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:	4-		Х
	Receive a severance payment or change-of-control payment?	4a		X
	Participate in, or receive payment from, a supplemental nonqualified retirement plan?	4b 4c		X
C	Participate in, or receive payment from, an equity-based compensation arrangement?	40		
	If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.			
	Only section 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:			
а	The organization?	5a		Х
	Any related organization?	5b		Х
	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:			
а	The organization?	6a		X
b	Any related organization?	6b		Х
	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 nonfixed payments			
	not described on lines 5 and 6? If "Yes," describe in Part III	7		X
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		X
9	If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in			
	Regulations section 53.4958-6(c)?	9		

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

Schedule J (Form 990) 2019

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 aren't 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.

		(B) Breakdown of W-2		and/or 1099-MISC compensation	(C) Retirement and	(D) Nontaxable	(E) Total of columns	(F) Compensation
(A) Name and Title		(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation	other deferred compensation	benefits	(B)(i)-(D)	in column (B) reported as deferred on prior Form 990
(1) HALL, JEFFREY C.	Ξ	168,611.	0	18,000.	8,260.	9,598.	204,469.	0
DIRECTOR	(E)			0		0		0
(2) LABRUZZO, ANNE	Ξ	139,11	0	• 0	7,51	9,535.	156,158.	0
DEPUTY DIRECTOR FOR ADMINISTRATION	=		0	0		0	l	0
(3) SCHLEICHER, DAVID	Ξ	151,55		• 0	99'L	8,747.	167,959.	
ASTRONOMER	E	0	0	0	0	0	l	0
(4) MASSEY, PHILIP	Ξ	155,163.	0	0.	1,66	9,063.	171,886.	0
ASTRONOMER	(ii)		• 0	• 0		0		
(5) HUNTER, DEIDRE	Ξ	146,279.	0	0	7,560.	10,254.	164,093.	
ASTRONOMER	=	0	0	0	0	0	0	
(6) WEST, MICHAEL	Ξ	150,949.	0	0	7,510.	1,074.	159,533.	0
DEPUTY DIRECTOR FOR SCIENCE	€	0	0	0	0	0	0	0
(7) ACTOR, ANNE T.	Ξ	147,724.	0	0	7,472.	8,828.	164,024.	0
DEPUTY DIRECTOR FOR DEVELOPMENT	(E)	0	0	•0	0	0	0	0
	(i)							
	(ii)							
	(i)							
	(ii)							
	Ξ							
	(ii)							
	Ξ							
	(ii)							
	Ξ							
	(ii)							
	Ξ							
	(ii)							
	Ξ							
	(ii)							
	(i)							
	(ii)							
	Ξ							
	<u> </u>							

Schedule J (Form 990) 2019

ditional information.
e this part for any add
· Part II. Also complet
6b, 7, and 8, and for
a, 4b, 4c, 5a, 5b, 6a,
rt I, lines 1a, 1b, 3, 4
escriptions required for Par
n, explanation, or do
Provide the informatio

											Schedule J (Form 990) 2019
	THE STAY	SENEFIT.									
		WAS TREATED AS A HOUSING ALLOWANCE AND WAS INCLUDED AS A TAXABLE BENEFIT.									
	J. HALL, DIRECTOR STAYED IN A HOUSE OWNED BY LOWELL OBSERVATORY.	S INCLUDED A									
	HOUSE OWNED	WANCE AND WA									
	STAYED IN A	HOUSING ALLC									
PART I, LINE 1A:	L, DIRECTOR	EATED AS A									
PART I	J. HAL	WAS TR									

SCHEDULE M (Form 990)

Noncash Contributions

OMB No. 1545-0047

Open to Public Inspection

Department of the Treasury Internal Revenue Service

Complete if the organizations answered "Yes" on Form 990, Part IV, lines 29 or 30.

Attach to Form 990.

► Go to www.irs.gov/Form990 for instructions and the latest information.

Name of the organization LOWELL OBSERVATORY Employer identification number 86 - 0098918

Pai	t 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 de noncash contribu	etermini	_	s
1	Art - Works of art		itomo contributos	1 01111 000, 1 411 1111, 11110 19				
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	18	2,397,246.	TRANSACTION	VAI	LUE	
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 $_{\dots}$							
15	Real estate - Residential							
16	Real estate - Commercial							
17	Real estate - Other							
18	Collectibles	X	1	1,395.	FAIR MARKET	' VAI	LUE	
19	Food inventory							
20	Drugs and medical supplies							
21	Taxidermy							
22	Historical artifacts							
23	Scientific specimens							
24	Archeological artifacts	v	0	26 062	EXTO MADERI	1 777 7	ידדד	
25	Other (FURNITURE, SU) Other (LIFE INSURANC)	X	9		FAIR MARKET FAIR MARKET			
26	` 	X	2		FAIR MARKET			
27	, '			2,023.	PAIN MARKET	VAI	1015	
28 29	Other () Number of Forms 8283 received by the organi	I ization durin	a the tax year for a	contributions				
25	for which the organization completed Form 82							
	To which the organization completed form oz	.00,1 ait iv,	Donce Acknowled	gement 23			Yes	No
30a	During the year, did the organization receive b	v contributio	on any property re	oorted in Part I. lines 1 throu	gh 28, that it		100	110
000	must hold for at least three years from the dat							
	exempt purposes for the entire holding period			•		30a		Х
b	If "Yes," describe the arrangement in Part II.				•••••			
31	Does the organization have a gift acceptance	policy that re	equires the review	of any nonstandard contribu	utions?	31	Х	
	Does the organization hire or use third parties							
	contributions?		•			32a	х	
b	If "Yes," describe in Part II.							
33	If the organization didn't report an amount in o	column (c) fo	r a type of propert	y for which column (a) is che	ecked,			
	also suffer to Deat II		• • • • • • • • • • • • • • • • • • • •		·			
	Gescribe in Part II.				Cabadula N		200	-0046

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

Schedule M (Form 990) 2019

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.
SCHEDULE M, PART I, COLUMN (B):
THE AMOUNT IN COLUMN B REPRESENTS THE NUMBER OF INSTANCES THAT A
DONATION OCCURRED.
SCHEDULE M, LINE 32B:
PUBLICLY TRADED SECURITIES ARE DEPOSITED INTO AN INVESTMENT ACCOUNT
OWNED BY THE OBSERVATORY. THE SECURITIES ARE SOLD BY A BROKER SHORTLY
AFTER.

15580624 759078 16383

SCHEDULE O

Internal Revenue Service

(Form 990 or 990-EZ) Department of the Treasury

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 ► Go to www.irs.gov/Form990 for the latest information. Open to Public Inspection

OMB No. 1545-0047

Name of the organization

LOWELL OBSERVATORY

Employer identification number 86-0098918

FORM 990, PART III, LINE 4A, PROGRAM SERVICE ACCOMPLISHMENTS: ARE BOSTON UNIVERSITY, NORTHERN ARIZONA UNIVERSITY, UNIVERSITY OF MARYLAND, UNIVERSITY OF TOLEDO, AND YALE UNIVERSITY). LDT'S GROWING SUITE OF STATE-OF-THE-ART INSTRUMENTS, SUCH AS THE WORLD-LEADING INFRARED SPECTROGRAPH IGRINS AND THE NEW HIGH-PRECISION SPECTROGRAPH EXPRES, ENABLED CUTTING-EDGE RESEARCH ACROSS MULTIPLE FIELDS, INCLUDING THE SEARCH FOR EXOPLANETS. IN PARTNERSHIP WITH THE US NAVAL OBSERVATORY AND THE NAVAL RESEARCH LABORATORY, LOWELL HAS BEGUN A MULTI-MILLION DOLLAR UPGRADE OF THE NAVAL PRECISION OPTICAL INTERFEROMETER (NPOI) THAT WILL ADD THREE ONE-METER TELESCOPES TO THE EXISTING ARRAY, GREATLY INCREASING THE NUMBER OF OBJECTS OBSERVABLE FROM THAT SITE. LOWELL OBSERVATORY ALSO CONTINUED TO OPERATE OTHER SMALLER TELESCOPES AT ITS ANDERSON MESA SITE, INCLUDING THE HIGHLY SCIENTIFICALLY PRODUCTIVE 42 AND 31" TELESCOPES. ACCESS TO LOCAL TELESCOPES EQUIPPED WITH WORLD-CLASS INSTRUMENTS HAS ENABLED SCIENCE THAT COULD NOT BE DONE ELSEWHERE. IN ADDITION, THE OBSERVATORY IS UNDERTAKING A DRAMATIC EXPANSION OF ITS MAIN CAMPUS ON MARS HILL, INCLUDING NEW EDUCATION AND OUTREACH FACILITIES, ALONG WITH A NEW TECHNICAL SERVICES BUILDING THAT WILL GREATLY INCREASE THE SCIENTIFIC CAPABILITIES OF ITS SUITE OF TELESCOPES.

FORM 990, PART III, LINE 4B, PROGRAM SERVICE ACCOMPLISHMENTS: PROGRAMS WERE OFFERED TO CHILDREN THROUGHOUT THE YEAR AT BOTH ON- AND OFF-SITE LOCATIONS. THESE PROGRAMS, FEATURING HANDS-ON ASTRONOMY AND PHYSICS EXERCISES AND EXPLORATIONS, ARE DESIGNED TO ILLUMINATE THE INTERCONNECTIONS BETWEEN STEM SUBJECT AREAS AND FOSTER THE ABILITY TO

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

Schedule O (Form 990 or 990-EZ) (2019)

Name of the organization

Employer identification number

THINK CRITICALLY. ON-SITE, ATTENDANCE REACHED RECORD LEVELS FOR BOTH

ELEMENTARY AND MIDDLE SCHOOL CAMPS. OFF-SITE, A RECORD NUMBER OF

CHILDREN PARTICIPATED IN LOCKS PROGRAMS AT THE FLAGSTAFF FAMILY FOOD

CENTER, AND ADDITIONAL CLASSROOMS IN CAVE CREEK, ARIZONA, ADOPTED THE

LOCKS - PRESCHOOL CURRICULUM. LOWELL ASTRONOMERS AND EDUCATORS VISITED

SEVERAL NATIVE AMERICAN CLASSES THROUGHOUT THE SCHOOL YEAR TO LEAD

ASTRONOMY LESSONS AND HOST STAR PARTIES AS PART OF THE OBSERVATORY'S

FORM 990, PART VI, SECTION B, LINE 11B:

LONG-RUNNING NATIVE AMERICAN ASTRONOMY OUTREACH PROGRAM.

THE FORM 990 DRAFT WILL BE FIRST REVIEWED BY THE DEPUTY DIRECTOR FOR

ADMINISTRATION (DDA) FOR ACCURACY. ONCE IT HAS BEEN DEEMED ACCURATE BY THE

DDA IT WILL BE FORWARDED TO THE SOLE TRUSTEE, DIRECTOR AND AUDIT COMMITTEE

FOR THEIR REVIEW AND COMMENTS. AFTER ANY QUESTIONS AND COMMENTS HAVE BEEN

ADDRESSED IT WILL BE APPROVED AND A FINAL COPY WILL BE SIGNED AND FILED BY

THE DDA.

FORM 990, PART VI, SECTION B, LINE 12C:

THE ORGANIZATION CONDUCTS WEEKLY REVIEWS OF PAYABLES INCLUDING POTENTIAL

CONFLICTS OF INTEREST AND FOLLOW-UP OCCURS TO ENFORCE COMPLIANCE WITH THE

COMPANY POLICY.

FORM 990, PART VI, SECTION B, LINE 15A:

COMPENSATION OF THE DIRECTOR FOR LOWELL OBSERVATORY IS DETERMINED BY THE

SOLE TRUSTEE OF THE CORPORATION AFTER REVIEW OF INFORMATION PROVIDED BY THE

HUMAN RESOURCE ADMINISTRATOR AND MEMBERS OF THE ADVISORY BOARD WHO ARE OR

HAVE BEEN MEMBERS OF THE SCIENTIFIC BUSINESS COMMUNITY. THE HUMAN RESOURCE

ADMINISTRATOR REVIEWS THE TOTAL COMPENSATION OF THE DIRECTOR IN ACCORDANCE

932212 09-06-19

Name of the organization LOWELL OBSERVATORY	Employer identification number 86-0098918
WITH REGULATIONS/GUIDELINES ESTABLISHED BY THE IRS AND IN	DUSTRY BEST
PRACTICES. DATA REGARDING SALARIES OF OTHER DIRECTORS (C	EOS) AT
ORGANIZATIONS OF SIMILAR SIZE, INCLUDING BOTH NON-PROFIT	AND FOR-PROFIT
COMPANIES IS ALSO REVIEWED. THE SOLE TRUSTEE, WITH ADVIC	E FROM THE
ADVISORY BOARD, ALSO ESTABLISHES GOALS AND OBJECTIVES FOR	THE DIRECTOR AND
EVALUATES THE PERFORMANCE OF THE DIRECTOR BASED ON THE PR	IOR YEAR'S GOALS
AND OBJECTIVES.	
FORM 990, PART VI, SECTION C, LINE 19:	
WHEN REQUESTED, DOCUMENTS REGARDING THE OBSERVATORY ARE P	ROVIDED BY THE
BUSINESS OFFICE. THE 990 AND AUDITED FINANCIAL STATEMENT	S ARE AVAILABLE ON
THE LOWELL OBSERVATORY WEBSITE. THE 990 IS ALSO AVAILABLE	E ON GUIDESTAR AND
CHARITY NAVIGATOR. A SUMMARY OF THE CONSOLIDATED FINANCI	AL STATEMENTS IS
PUBLISHED ANNUALLY IN AN ANNUAL REPORT.	

SCHEDULE R (Form 990)

Name of the organization Department of the Treasury Internal Revenue Service

Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 36, or 37. Related Organizations and Unrelated Partnerships

▶ Attach to Form 990.

OMB No. 1545-0047

Go to www.irs.gov/Form990 for instructions and the latest information.

Employer identification number 86-0098918Direct controlling Identification of Related Tax-Exempt Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related tax-exempt organizations during the tax year. entity End-of-year assets **e** Total income ਉ Identification of Disregarded Entities. Complete if the organization answered "Yes" on Form 990, Part IV, line 33. Legal domicile (state or foreign country) Primary activity LOWELL OBSERVATORY Name, address, and EIN (if applicable) of disregarded entity Partl PartII

organizations during the tax year.							
(a)	(q)	(c)	(p)	(e)	(f)	(b)	0
Name, address, and EIN	Primary activity	Legal domicile (state or	Exempt Code	Public charity	Direct controlling	section 5 12(b)(controlled	2(b)(13) led
of related organization		foreign country)	section	status (if section	entity	entity?	2
				501(c)(3))		Yes	No
PERCIVAL LOWELL TRUST UW - 04-2007327							
1400 W MARS HILL ROAD	TRUST F/B/O LOWELL				LOWELL		
FLAGSTAFF, AZ 86001	OBSERVATORY	ARIZONA	501(C)(3)	LINE 12B, II OBSERVATORY	OBSERVATORY	×	
LOWELL OBSERVATORY FOUNDATION - 47-2052113							
1400 W MARS HILL ROAD	FOUNDATION F/B/O LOWELL						
FLAGSTAFF, AZ 86001	OBSERVATORY	ARIZONA	501(C)(3)	LINE 12B, II N/A	N/A		×

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

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Schedule R (Form 990) 2019

86-0098918

Page 2

Schedule R (Form 990) 2019 LOWELL OBSERVATORY

Identification of Related Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related organizations treated as a partnership during the tax year. Part III

General or Percentage managing ownership		
(j) General or managing partner?		
Code V-UBI Ge amount in box ms 20 of Schedule Ps K-1 (Form 1065) Ye		
(h) Disproportionate allocations?		
(g) Share of end-of-year assets		
(f) Share of total income		
(e) Predominant income (related, unrelated, excluded from tax under sections 512-514)		
(d) Direct controlling entity		
(c) Legal domicile (state or foreign country)		
(b) Primary activity		
(a) Name, address, and EIN of related organization		

Identification of Related Organizations Taxable as a Corporation or Trust. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related organizations treated as a corporation or trust during the tax year. Part IV

ı			ا ہا	l		I		I		l		l	
	(E)	Section 512(b)(13) controlled entity?	s No										
		0 51 g	Yes										
	(L)	Percentage ownership											
		Share of end-of-year	doodlo										
	(ŧ)	Share of total income											
	(e)	Type of entity (C corp, S corp,	Or trust)										
	(p)	Direct controlling Type of entity (C corp, S corp,											
	(၁)	Legal domicile (state or foreign	country)										
	(q)	Primary activity											
	(a)	Name, address, and EIN of related organization											

Schedule R (Form 990) 2019

932162 09-10-19

Part V Transactions With Related Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.

Note: Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule.				_	Yes No	2
1 During the tax year, did the organization engage in any of the following transactions with one or more related organizations listed in Parts II-IV?	s with one or more r	elated organizations listed	in Parts II-IV?			
a Receipt of (i) interest, (ii) annuities, (iii) royalties, or (iv) rent from a controlled entity	>			1a		×
b Gift, grant, or capital contribution to related organization(s)				1b	×	
c Gift, grant, or capital contribution from related organization(s)				10	×	
				19	×	
- 3				1e	×	
f Dividends from related organization(s)				#		×
g Sale of assets to related organization(s)				19		×
h Purchase of assets from related organization(s)				4h		×
i Exchange of assets with related organization(s)				=		×
_				į.		×
k Lease of facilities, equipment, or other assets from related organization(s)				¥		×
	anization(e)			F	×	
m Performance of services or membership or fundraising solicitations by related organization(s)	anization(s)			: <u>E</u>	+	×
	ion(s)			+	+	
	(5)			+		
 Sharing of paid employees with related organization(s) 				٥	4	
s Doimburcomont noid to related organization(c) for overance				Ę	×	
Beimbursement paid by related organization(s) for expenses				╀	 ×	
				+		
r Other transfer of cash or property to related organization(s)				÷		×
				15	H	×
1	who must complete t	his line, including covered	relationships and transaction thresholds.	1		
(a) Name of related organization	(b) Transaction type (a-s)	(c) Amount involved	(d) Method of determining amount involved	,ed		
(1) PERCIVAL LOWELL TRUST UW	Ħ	10,200,000.	10,200,000.END OF YEAR BALANCE			
(2) PERCIVAL LOWELL TRUST UW	Д	633,676.CASH	CASH VALUE			
(3) LOWELL OBSERVATORY FOUNDATION	В	52,374.	374.CASH VALUE			
(4) LOWELL OBSERVATORY FOUNDATION	ŭ	1,009,235.	CASH VALUE			
(5)						
(9)						
932163 09-10-19	44		Schodille B (Form 990) 2019	Form	000)	019

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Part VI Unrelated Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 37.

Provide the following information for each entity taxed as a partnership through which the organization conducted more than five percent of its activities (measured by total assets or gross revenue) that was not a related organization. See instructions regarding exclusion for certain investment partnerships.

Disproportional amount in box 20 managing ownership ves No (Form 1065) ves No 图 9 Ξ <u>E</u> Share of end-of-year assets (g) Share of income total (e)
Are all
partners sec.
501(c)(3)
orgs.? Yes No Predominant income (related, unrelated, excluded from tax under sections 512-514) (state or foreign Legal domicile country) Primary activity Name, address, and EIN of entity

Schedule R (Form 990) 2019