

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). <p style="text-align: center;">▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	OMB Nos. 1210-0110 1210-0089 <div style="text-align: center; font-size: 24pt; font-weight: bold;">2018</div> This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2018 or fiscal plan year beginning <u>01/01/2018</u> and ending <u>12/31/2018</u>	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B This return/report is:	☐ the first return/report ☐ the final return/report ☒ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here.	☐
D Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)

Part II	Basic Plan Information—enter all requested information				
1a Name of plan <u>LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401K PLAN</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1b Three-digit plan number (PN) ▶</td> <td style="width: 20%; text-align: center;"><u>001</u></td> </tr> <tr> <td colspan="2">1c Effective date of plan <u>01/01/1992</u></td> </tr> </table>	1b Three-digit plan number (PN) ▶	<u>001</u>	1c Effective date of plan <u>01/01/1992</u>	
1b Three-digit plan number (PN) ▶	<u>001</u>				
1c Effective date of plan <u>01/01/1992</u>					
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>LUMASENSE TECHNOLOGIES HOLDINGS, INC.</u> <u>3301 LEONARD COURT</u> <u>SANTA CLARA, CA 95054</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2b Employer Identification Number (EIN) <u>20-3457059</u></td> </tr> <tr> <td>2c Plan Sponsor's telephone number <u>408-235-3890</u></td> </tr> <tr> <td>2d Business code (see instructions) <u>334500</u></td> </tr> </table>	2b Employer Identification Number (EIN) <u>20-3457059</u>	2c Plan Sponsor's telephone number <u>408-235-3890</u>	2d Business code (see instructions) <u>334500</u>	
2b Employer Identification Number (EIN) <u>20-3457059</u>					
2c Plan Sponsor's telephone number <u>408-235-3890</u>					
2d Business code (see instructions) <u>334500</u>					

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/10/2019	MARCI FOUTS
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2018)
v. 171027

3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number <div style="background-color: #cccccc; height: 40px; width: 100%;"></div>
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5 181
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	<div style="background-color: #cccccc; height: 20px; width: 100%;"></div> 6a(1) 134 6a(2) 126 6b 2 6c 46 6d 174 6e 0 6f 174 6g 132 6h 0
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

2E 2F 2G 2J 2K 2T 3D

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
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10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1)** ☒ **R** (Retirement Plan Information)
- (2)** ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3)** ☐ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

- (1)** ☒ **H** (Financial Information)
- (2)** ☐ **I** (Financial Information – Small Plan)
- (3)** ☐ **A** (Insurance Information)
- (4)** ☒ **C** (Service Provider Information)
- (5)** ☒ **D** (DFE/Participating Plan Information)
- (6)** ☐ **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2018 Form M-1 annual report. If the plan was not required to file the 2018 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2018
		This Form is Open to Public Inspection.

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018		
A Name of plan LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401K PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 LUMASENSE TECHNOLOGIES HOLDINGS, INC.	D Employer Identification Number (EIN) 20-3457059	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☒ Yes ☐ No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
FIDELITY INVESTMENTS INSTITUTIONAL
04-2647786

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

FIDELITY INVESTMENTS INSTITUTIONAL

04-2647786

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
37 60 64 65	RECORDKEEPER	1125	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
FIDELITY INVESTMENTS INSTITUTIONAL	60	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
BUFFALO DISCOVERY - US BANCORP FUN 39-0281260	0.40%	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
FIDELITY INVESTMENTS INSTITUTIONAL	60	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
LD ABT SH DTN INC R5 - DST SYSTEMS 43-1581814	0.20%	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
FIDELITY INVESTMENTS INSTITUTIONAL	60	0
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
NUVEEN INFL-PRO I - DST ASSET MANA PO BOX 219432 KANSAS CITY, MO 64121	0.25%	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
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(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
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code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
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plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2018 This Form is Open to Public Inspection
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For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018		
A Name of plan LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401K PLAN	B Three-digit plan number (PN) ►	001
C Plan sponsor's name as shown on line 2a of Form 5500 LUMASENSE TECHNOLOGIES HOLDINGS, INC.	D Employer Identification Number (EIN) 20-3457059	

Part I	Asset and Liability Statement
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1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a	0	0
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)	0	0
(2) Participant contributions	1b(2)	0	0
(3) Other.....	1b(3)	0	0
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)	1356467	1057521
(2) U.S. Government securities	1c(2)	0	0
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)	0	0
(B) All other.....	1c(3)(B)	0	0
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)	0	0
(B) Common.....	1c(4)(B)	0	0
(5) Partnership/joint venture interests	1c(5)	0	0
(6) Real estate (other than employer real property).....	1c(6)	0	0
(7) Loans (other than to participants)	1c(7)	0	0
(8) Participant loans.....	1c(8)	197276	190164
(9) Value of interest in common/collective trusts	1c(9)	0	76199
(10) Value of interest in pooled separate accounts	1c(10)	0	0
(11) Value of interest in master trust investment accounts	1c(11)	0	0
(12) Value of interest in 103-12 investment entities.....	1c(12)	0	0
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	10820254	10665861
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other	1c(15)	0	0

1d Employer-related investments:

		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)	0	0
(2) Employer real property	1d(2)	0	0
e Buildings and other property used in plan operation	1e	0	0
f Total assets (add all amounts in lines 1a through 1e)	1f	12373997	11989745

Liabilities

g Benefit claims payable	1g	0	0
h Operating payables	1h	0	0
i Acquisition indebtedness	1i	0	0
j Other liabilities	1j	0	0
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	12373997	11989745
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	0	
(B) Participants	2a(1)(B)	1164335	
(C) Others (including rollovers)	2a(1)(C)	241051	
(2) Noncash contributions	2a(2)	0	1405386
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	18882	
(B) U.S. Government securities	2b(1)(B)	0	
(C) Corporate debt instruments	2b(1)(C)	0	
(D) Loans (other than to participants)	2b(1)(D)	0	
(E) Participant loans	2b(1)(E)	11102	
(F) Other	2b(1)(F)	0	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		29984
(2) Dividends: (A) Preferred stock	2b(2)(A)	0	824837
(B) Common stock	2b(2)(B)	0	
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	824837	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		824837
(3) Rents	2b(3)		0
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	0	0
(B) Aggregate carrying amount (see instructions)	2b(4)(B)	0	
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)	0	0
(B) Other	2b(5)(B)	0	
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		-714
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		0
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		0
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		0
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		-1565884
c Other income.....	2c		0
d Total income. Add all income amounts in column (b) and enter total.....	2d		693609

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	1071478	
(2) To insurance carriers for the provision of benefits	2e(2)	0	
(3) Other	2e(3)	0	
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		1071478
f Corrective distributions (see instructions)	2f		1040
g Certain deemed distributions of participant loans (see instructions)	2g		0
h Interest expense.....	2h		0
i Administrative expenses: (1) Professional fees.....	2i(1)	0	
(2) Contract administrator fees.....	2i(2)	0	
(3) Investment advisory and management fees.....	2i(3)	517	
(4) Other	2i(4)	4826	
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		5343
j Total expenses. Add all expense amounts in column (b) and enter total	2j		1077861

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-384252
l Transfers of assets:			
(1) To this plan.....	2l(1)		0
(2) From this plan.....	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☐ Unqualified (2) ☐ Qualified (3) ☒ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)?

☒ Yes ☐ No

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **SILICON VALLEY ACCOUNTANCY CORP**

(2) EIN: **77-0573994**

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)

	Yes	No	Amount
4a		X	
4b		X	

	Yes	No	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.).....		X	
4d		X	
e Was this plan covered by a fidelity bond?	X		500000
4e	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?.....		X	
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?.....		X	
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)		X	
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
4k		X	
l Has the plan failed to provide any benefit when due under the plan?.....		X	
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		X	
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.		X	
4n		X	

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?..... ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☐ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____. (See instructions.)

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2018 This Form is Open to Public Inspection.
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For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

A Name of plan <u>LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401K PLAN</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>LUMASENSE TECHNOLOGIES HOLDINGS, INC.</u>	D Employer Identification Number (EIN) <u>20-3457059</u>

Part I	Distributions
---------------	----------------------

All references to distributions relate only to payments of benefits during the plan year.

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions	1	
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): <u>04-6568107</u>		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year	3	

Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)
----------------	---

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)?	☐ Yes	☐ No	☐ N/A
If the plan is a defined benefit plan, go to line 8.			
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.			
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)	6a		
b Enter the amount contributed by the employer to the plan for this plan year	6b		
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)	6c		
If you completed line 6c, skip lines 8 and 9.			
7 Will the minimum funding amount reported on line 6c be met by the funding deadline?	☐ Yes	☐ No	☐ N/A
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change?	☐ Yes	☐ No	☐ N/A

Part III	Amendments
-----------------	-------------------

9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box.....	☐ Increase	☐ Decrease	☐ Both	☐ No
--	-----------------------------------	-----------------------------------	-------------------------------	-----------------------------

Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
----------------	---

10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?	☐ Yes	☐ No
11 a Does the ESOP hold any preferred stock?	☐ Yes	☐ No
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)	☐ Yes	☐ No
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?	☐ Yes	☐ No

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Schedule R (Form 5500) 2018
v. 171027

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

- 14** Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year

b The plan year immediately preceding the current plan year

c The second preceding plan year

14a**14b****14c**

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year

b The corresponding number for the second preceding plan year

15a**15b**

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year

b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers

16a**16b**

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

- a** Enter the percentage of plan assets held as:

Stock: _____ % Investment-Grade Debt: _____ % High-Yield Debt: _____ % Real Estate: _____ % Other: _____ %

- b** Provide the average duration of the combined investment-grade and high-yield debt:

☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

- c** What duration measure was used to calculate line 19(b)?

☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):

**SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2018**

(a)	(b) Identity of issue, borrower, lessor or similar party	(c) Description of investment including, maturity date, rate of interest, collateral, par or maturity value	(d) Current value
*	Buffalo Discovery Fund	Mutual Fund	\$ 173,886
*	Fidelity Balanced Fund	Mutual Fund	482,590
*	Fidelity Capital & Income Fund	Mutual Fund	480,772
*	Fidelity Freedom 2005 Fund	Mutual Fund	22,071
*	Fidelity Freedom 2010 Fund	Mutual Fund	142,106
*	Fidelity Freedom 2015 Fund	Mutual Fund	221,743
*	Fidelity Freedom 2020 Fund	Mutual Fund	441,509
*	Fidelity Freedom 2025 Fund	Mutual Fund	894,452
*	Fidelity Freedom 2030 Fund	Mutual Fund	464,434
*	Fidelity Freedom 2035 Fund	Mutual Fund	170,642
*	Fidelity Freedom 2040 Fund	Mutual Fund	105,747
*	Fidelity Freedom 2045 Fund	Mutual Fund	81,412
*	Fidelity Freedom 2050 Fund	Mutual Fund	382,743
*	Fidelity Freedom 2055 Fund	Mutual Fund	35,223
*	Fidelity Freedom Income Fund	Mutual Fund	305,653
*	Fidelity International Discovery Fund	Mutual Fund	358,585
*	Fidelity Select Health Care Portfolio	Mutual Fund	869,521
*	Fidelity Select Technology Portfolio	Mutual Fund	797,070
*	Fidelity Total Bond Fund	Mutual Fund	272,015
*	Fidelity Value Discovery Fund	Mutual Fund	234,038
*	Fidelity Government Money Market Fd	Money Market Fund	1,057,521
*	Invesco Diversified Dividend Fund	Mutual Fund	311,815
*	Mainstay Large Cap Growth Fund	Mutual Fund	233,660
*	Nuveen Inflation Protected Securities Fd	Mutual Fund	692
*	Fidelity Emerging Markets Index Fund	Mutual Fund	16,503
*	Fidelity International Index Fund	Mutual Fund	23,203
*	Fidelity Mid Cap Index Fund	Mutual Fund	115,168
*	Fidelity Mid Cap Value Fund	Mutual Fund	402,626
*	Fidelity Small Cap Index Fund	Mutual Fund	365,192
*	Fidelity 500 Index Fund	Mutual Fund	1,263,481
*	Victory Sycamore Small Company Opportunity Fund	Mutual Fund	148,206
*	Lord Abbett Short Duration Income Fd	Mutual Fund	2,655
*	Fidelity Blue Chip Growth Fund	Mutual Fund	846,448
*	Managed Income Portfolio	Common Collective Trust	76,199
	Assets held for investment purposes		11,799,581
*	Participant loans/Notes receivable from participants	Interest rates from 5.25% to 7.25%	190,164
	Total		<u>\$ 11,989,745</u>

* Held or invested through Fidelity, the trustee and custodian, a party-in-interest to the Plan.

See Independent Auditors' Report.

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

Financial Statements and Supplemental Schedule

*December 31, 2018 and 2017 and for the year ended December 31, 2018 with
Independent Auditors' Report*

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

Financial Statements and Supplemental Schedule

**December 31, 2018 and 2017
and for the year ended December 31, 2018**

Table of contents

	Page
Independent Auditors' Report.....	1-2
Financial Statements:	
Statements of Net Assets Available for Benefits.....	3
Statement of Changes in Net Assets Available for Benefits.....	4
Notes to Financial Statements.....	5-11
Supplemental Schedule as of December 31, 2018.....	12
Schedule H, Line 4i – Schedule of Assets (Held at End of Year)	

Independent Auditors' Report

To the Plan Administrator and Participants
of the LumaSense Technologies Holdings, Inc. 401(k) Plan

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of the LumaSense Technologies Holdings, Inc. 401(k) Plan ("the Plan"), which comprise the statements of net assets available for benefits as of December 31, 2018 and 2017, and the related statement of changes in net assets available for benefits for the year ended December 31, 2018, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Plan management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on conducting the audits in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

Basis for Disclaimer of Opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 ("ERISA"), the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 4, which was certified by Fidelity Management Trust Company ("Fidelity"), the trustee and custodian of the Plan, except for comparing the information with the related information included in the financial statements and supplemental schedule. We have been informed by the Plan Administrator that Fidelity holds the Plan's investment assets and executes investment transactions.

The Plan Administrator has obtained a certification from Fidelity as of December 31, 2018 and 2017, and for the year ended December 31, 2018, that the information provided to the Plan Administrator by Fidelity is complete and accurate.

Disclaimer of Opinion

Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

Other Matter – Supplemental Schedule

The supplemental Schedule of Assets (Held at End of Year) as of December 31, 2018 is required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA and is presented for the purpose of additional analysis and is not a required part of the financial statements. Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we do not express an opinion on the supplemental schedule.

Report on Form and Content in Compliance With the Department of Labor's Rules and Regulations

The form and content of the information included in the financial statements and supplemental schedule, other than that derived from the information certified by Fidelity, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

Other Matter – Plan Merger

On September 4 2018, LumaSense Technologies Holdings Inc. was acquired by Advanced Energy Industries, Inc. As further discussed in Note 1, LumaSense Technologies Holdings, Inc. has decided to merge the Plan into the Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan in accordance with the provisions of ERISA.

Silicon Valley Accountancy Corporation

SILICON VALLEY ACCOUNTANCY CORPORATION

San Jose, California
August 26, 2019



LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

	December 31, 2018	2017
	<hr/>	<hr/>
Assets:		
Investments at fair value	<u>\$11,799,581</u>	<u>\$12,176,721</u>
Assets held for investment purposes	11,799,581	12,176,721
Notes receivable from participants	<u>190,164</u>	<u>197,276</u>
Total assets	<u>11,989,745</u>	<u>12,373,997</u>
Net assets available for benefits	<u><u>\$11,989,745</u></u>	<u><u>\$12,373,997</u></u>

The accompanying notes are an integral part of the financial statements.

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

	Year ended <u>December 31, 2018</u>
Additions:	
Investment income:	
Interest	\$ 18,882
Dividends	824,837
Interest on notes receivable from participants	11,102
Contributions:	
Participants	1,164,335
Rollovers	<u>241,051</u>
Total additions	<u>2,260,207</u>
Deductions:	
Investment Loss	
Net depreciation in fair value of investments	1,566,598
Benefits paid to participants	1,072,518
Plan expenses	<u>5,343</u>
Total deductions	<u>2,644,459</u>
Net decrease in net assets	(384,252)
Net assets available for benefits:	
Beginning of year	<u>12,373,997</u>
End of year	<u><u>\$ 11,989,745</u></u>

The accompanying notes are an integral part of the financial statements.

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2018 AND 2017 (See Independent Auditor's Report)

NOTE 1 - DESCRIPTION OF PLAN

The following description of the LumaSense Technologies Holdings, Inc. 401(k) Plan ("the Plan") provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan's provisions.

On September 4, 2018, LumaSense Technologies Holdings Inc. ("the Company" or "Plan Administrator") was acquired by Advanced Energy Industries, Inc. In 2019, the Company decided to merge the Plan into the Advanced Energy Industries, Inc. 401(k) Profit Sharing Plan in accordance with the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA").

General - The Plan is a defined contribution plan that was established on January 1, 1992 by the Company covering all eligible employees of the Company and its affiliates, as defined in the Plan agreement. Certain classes of employees as defined in the Plan agreement are excluded from plan participation. The Plan is subject to the provisions of the ERISA.

A Plan Committee ("the Committee") manages the operation and administration of the Plan, including the appropriateness of the Plan's investment offerings and investment performance. The Company has contracted with Fidelity Management Trust Company ("Fidelity") to act as trustee, custodian, and record-keeper to process and maintain the records of participant data.

Contributions - Each year, participants may contribute an amount of eligible pre-tax annual compensation as defined in the Plan agreement, not to exceed the maximum statutory amount. Participants who are age 50 or older can elect to make catch-up contributions to the Plan, not to exceed the maximum statutory amount. Participants may also contribute amounts representing distributions from other qualified eligible plans.

The Plan allows for an employer discretionary matching contribution and/or an employer discretionary nonelective contribution subject to certain eligibility requirements; none were made for the year ended December 31, 2018.

Participant Accounts - Each participant's account is credited with the participant's contribution, the Company's discretionary matching contribution (if any), an allocation of the discretionary nonelective contribution (if any), plan earnings and losses, and plan expenses as applicable to the Plan. Allocations of the discretionary nonelective contribution are based on participant compensation. Allocations of plan earnings and losses are based on individual participant

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS (Continued)
DECEMBER 31, 2018 AND 2017 (See Independent Auditor's Report)

investment choices. All contributions/investments are participant directed. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Certain investment and fund fees are charged to the funds and included in plan investment income and losses and charged to participant accounts. Participants should refer to the funds' prospectuses for further information on these fees.

Vesting - Participants are 100% vested in their contributions and rollover amounts plus actual earnings thereon. Vesting in the discretionary matching and discretionary nonelective contributions and earnings is based on years of credited service. A participant vests as follows: less than three years of credited service - 0%, at three years of credited service - 100%. Participants become fully vested in the event of death, disability, retirement age, or plan termination.

Notes Receivable from Participants - Participants may borrow from their vested accounts a minimum of \$1,000 up to a maximum of \$50,000 or 50% of their vested account balance, whichever is less. One outstanding note per participant is permitted at any given time. The notes are secured by the balance in the participant's account and bear interest at rates which are commensurate with prevailing rates as determined by the Plan Administrator. Outstanding notes receivable from participants as of December 31, 2018 carry interest rates which range from 5.25% to 7.25%. Outstanding notes receivable from participants as of December 31, 2017 carry interest rates which range from 5.25% to 6.25%. Principal and interest is paid ratably through payroll deductions. The notes must be repaid within a five-year period, unless it is used for the purchase of a principal residence in which case the maximum repayment period may be longer. The Plan Administrator establishes the specific terms and conditions of such notes.

Payment of Benefits - Upon the satisfaction of certain distributable events, participants or their beneficiaries may elect to receive their vested account balance and are paid in accordance with plan provisions.

Forfeited Accounts - Forfeited non-vested employer contribution accounts are retained in the Plan and may first be used to pay plan expenses. Any remaining amounts can be used to reduce future employer contributions under the Plan.

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting - The financial statements of the Plan are prepared on the accrual basis of accounting.

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS (Continued)
DECEMBER 31, 2018 AND 2017 (See Independent Auditor's Report)

Use of Estimates - The preparation of financial statements in accordance with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investment Valuation and Income Recognition - Investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Plan's Committee determines the Plan's valuation policies utilizing information provided by Fidelity. See Note 5 for discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation (depreciation) includes the Plan's gains and losses on investments bought and sold as well as held during the year.

Notes Receivable from Participants - Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of December 31, 2018 and 2017. Delinquent participant notes are recorded as distributions on the basis of the terms of the Plan agreement.

Excess Contributions Payable - Amounts payable to participants for contributions in excess of amounts allowed by the Internal Revenue Service ("IRS") are recorded as a liability. As of December 31, 2018 and 2017, there were no excess contributions payable.

Plan Expenses - In 2018, some plan fees were paid by the Company and these amounts are excluded from the Plan's financial statements. Investment/fund fees, certain participant transaction fees and annual administration fees are charged to participant accounts as applicable.

Payment of Benefits - Benefits are recorded when paid.

Subsequent Events - The Plan has evaluated subsequent events through August 26, 2019, the date the financial statements were available to be issued.

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS (Continued)
DECEMBER 31, 2018 AND 2017 (See Independent Auditor's Report)

NOTE 3 - RISKS AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits.

NOTE 4 - CERTIFIED INFORMATION

The Plan Administrator has elected the method of compliance permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, Fidelity has certified to the completeness and accuracy of:

- Investments and notes receivable from participants reflected on the accompanying Statements of Net Assets Available for Benefits as of December 31, 2018 and 2017.
- Interest, dividends, interest income from notes receivable from participants, and net depreciation in fair value of investments reflected on the accompanying Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2018.
- Investments reflected on the Schedule of Assets (Held at End of Year).

NOTE 5 - FAIR VALUE MEASUREMENTS

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs. The three levels of the fair value hierarchy under FASB ASU Subtopic 820-10 are described as follows:

Level 1 - Inputs to the valuation methodology are quoted prices (unadjusted) in active markets for identical assets or liabilities that the Plan can access at the measurement date.

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS (Continued)
DECEMBER 31, 2018 AND 2017 (See Independent Auditor's Report)

Level 2 - Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly, such as:

- quoted prices for similar assets or liabilities in active markets;
- quoted prices for identical or similar assets or liabilities in inactive markets;
- inputs other than quoted prices that are observable for the asset or liability;
- inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 - Inputs that are unobservable inputs for the asset or liability.

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2018 and 2017 except for the Money Market Fund which was reclassified in the Fair Value table below for 2017 to conform with the 2018 presentation.

Mutual Funds: Valued at the daily closing price as reported by the fund. Mutual funds held by the Plan are open-end mutual funds that are registered with the U.S. Securities and Exchange Commission. These funds are required to publish their daily net asset value ("NAV") and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded.

Money Market Fund: Valued at fair value on a cash equivalency basis.

Common Collective Trust Fund: A stable value fund that is composed primarily of fully benefit-responsive investment contracts and the fund is valued at the NAV of units of a bank collective trust. The NAV, as provided by the trustee, is used as a practical expedient to estimate fair value. This practical expedient is not used when it is determined to be probable that the fund will sell the investment for an amount different than the reported NAV. Participant transactions (purchased and sales) may occur daily. If the Plan initiates a full redemption of the collective trust, the issuer reserves the right to require 12 months notification in order to ensure that securities liquidations will be carried out in an orderly business manner.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS (Continued)

DECEMBER 31, 2018 AND 2017 (See Independent Auditor's Report)

consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2018 and 2017. Classification within the fair value hierarchy table is based on the lowest level of any input that is significant to the fair value measurement.

	<u>Assets at Fair Value as of December 31, 2018</u>			
	Level 1	Level 2	Level 3	Total
Mutual Funds	\$10,665,861	\$ -	\$ -	\$10,665,861
Money Market Fund	1,057,521	-	-	1,057,521
Total assets in the fair value hierarchy	11,723,382	-	-	11,723,382
Investments measured at NAV (a)	-	-	-	76,199
Investments at fair value	<u>\$11,723,382</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$11,799,581</u>

	<u>Assets at Fair Value as of December 31, 2017</u>			
	Level 1	Level 2	Level 3	Total
Mutual Funds	\$10,820,254	\$ -	\$ -	\$10,820,254
Money Market Fund	1,356,467	-	-	1,356,467
Investments at fair value	<u>\$12,176,721</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$12,176,721</u>

(a) In accordance with FASB ASU Subtopic 820-10, certain investments that were measured at NAV (or its equivalent) have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the line items presented in the statement of net assets available for benefits.

NOTE 6 - PARTY-IN-INTEREST AND RELATED PARTY TRANSACTIONS

Plan investments are held by Fidelity, the trustee and custodian of the Plan. Any purchases and sales of these investments are performed in the open market at fair value. Plan related fees are paid to Fidelity. The Plan has other service providers. All these transactions while considered party-in-interest transactions under ERISA

LUMASENSE TECHNOLOGIES HOLDINGS, INC. 401(k) PLAN

NOTES TO FINANCIAL STATEMENTS (Continued)
DECEMBER 31, 2018 AND 2017 (See Independent Auditor's Report)

regulations, are permitted under the provisions of the Plan and are specifically exempt from the prohibition of party-in-interest transactions under ERISA.

NOTE 7 - TAX STATUS

The Plan has adopted a volume submitter plan, which has received an opinion letter dated March 31, 2014 from the IRS. The Plan has been amended since, however, the Plan Administrator believes that the Plan is designed, and is currently being operated, in compliance with the applicable requirements of the Internal Revenue Code and, therefore, believes the Plan is qualified, and the related trust is tax exempt.

Accounting principles generally accepted in the United States of America require plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by various taxing authorities and government agencies. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

SUPPLEMENTAL SCHEDULE
REQUIRED BY THE DEPARTMENT OF LABOR

**SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2018**

(a)	(b) Identity of issue, borrower, lessor or similar party	(c) Description of investment including, maturity date, rate of interest, collateral, par or maturity value	(d) Current value
*	Buffalo Discovery Fund	Mutual Fund	\$ 173,886
*	Fidelity Balanced Fund	Mutual Fund	482,590
*	Fidelity Capital & Income Fund	Mutual Fund	480,772
*	Fidelity Freedom 2005 Fund	Mutual Fund	22,071
*	Fidelity Freedom 2010 Fund	Mutual Fund	142,106
*	Fidelity Freedom 2015 Fund	Mutual Fund	221,743
*	Fidelity Freedom 2020 Fund	Mutual Fund	441,509
*	Fidelity Freedom 2025 Fund	Mutual Fund	894,452
*	Fidelity Freedom 2030 Fund	Mutual Fund	464,434
*	Fidelity Freedom 2035 Fund	Mutual Fund	170,642
*	Fidelity Freedom 2040 Fund	Mutual Fund	105,747
*	Fidelity Freedom 2045 Fund	Mutual Fund	81,412
*	Fidelity Freedom 2050 Fund	Mutual Fund	382,743
*	Fidelity Freedom 2055 Fund	Mutual Fund	35,223
*	Fidelity Freedom Income Fund	Mutual Fund	305,653
*	Fidelity International Discovery Fund	Mutual Fund	358,585
*	Fidelity Select Health Care Portfolio	Mutual Fund	869,521
*	Fidelity Select Technology Portfolio	Mutual Fund	797,070
*	Fidelity Total Bond Fund	Mutual Fund	272,015
*	Fidelity Value Discovery Fund	Mutual Fund	234,038
*	Fidelity Government Money Market Fd	Money Market Fund	1,057,521
*	Invesco Diversified Dividend Fund	Mutual Fund	311,815
*	Mainstay Large Cap Growth Fund	Mutual Fund	233,660
*	Nuveen Inflation Protected Securities Fd	Mutual Fund	692
*	Fidelity Emerging Markets Index Fund	Mutual Fund	16,503
*	Fidelity International Index Fund	Mutual Fund	23,203
*	Fidelity Mid Cap Index Fund	Mutual Fund	115,168
*	Fidelity Mid Cap Value Fund	Mutual Fund	402,626
*	Fidelity Small Cap Index Fund	Mutual Fund	365,192
*	Fidelity 500 Index Fund	Mutual Fund	1,263,481
*	Victory Sycamore Small Company Opportunity Fund	Mutual Fund	148,206
*	Lord Abbett Short Duration Income Fd	Mutual Fund	2,655
*	Fidelity Blue Chip Growth Fund	Mutual Fund	846,448
*	Managed Income Portfolio	Common Collective Trust	76,199
	Assets held for investment purposes		11,799,581
*	Participant loans/Notes receivable from participants	Interest rates from 5.25% to 7.25%	190,164
	Total		<u>\$ 11,989,745</u>

* Held or invested through Fidelity, the trustee and custodian, a party-in-interest to the Plan.

See Independent Auditors' Report.