# SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

## **SCHEDULE 13G**

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 1) \*

Ardelyx, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
039697107
(CUSIP Number)
December 31, 2017
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
☐ Rule 13d-1(b)
⊠ Rule 13d-1(c)
□ Rule 13d-1(d)
(Page 1 of 11 Pages)

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The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

<sup>\*</sup> The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Mgmt, L.P.		
2.	CHECK THE APPROP	PRIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		2,469,580 (1)	
EACH REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON		0	
WITH	8.	SHARED DISPOSITIVE POWER	
9.	AGGREGATE AMOU	2,469,580 (1)  NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
7.		AT BENEFICIALLY OWNED BY EACH REPORTING LEASON	
10	2,469,580 (1)		
10.	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
5.20%			
12.	TYPE OF REPORTING	G PERSON*	
	PN		

(1) Comprised of shares of common stock held by Deerfield Partners, L.P. and Deerfield International Master Fund, L.P., of which Deerfield Mgmt, L.P. is the general partner.

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Management	Company, L.P.	
2.	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		2,469,580 (2)	
EACH	7.	SOLE DISPOSITIVE POWER	
REPORTING PERSON	, ,		
WITH	8.	0 SHARED DISPOSITIVE POWER	
	0.	SHARED DISPOSITIVE FOWER	
		2,469,580 (2)	
9.	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,469,580 (2)		
10.	CHECK BOX IF THE A	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
5.20%			
12.	TYPE OF REPORTING	G PERSON*	
	PN		

<sup>(2)</sup> Comprised of shares of common stock held by Deerfield Partners, L.P. and Deerfield International Master Fund, L.P., of which Deerfield Management Company, L.P. is the investment advisor.

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Special Situat	ions Fund, L.P.	
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		250.047	
EACH	7.	359,847 SOLE DISPOSITIVE POWER	
REPORTING PERSON	,.		
WITH	8.	0 SHARED DISPOSITIVE POWER	
	8.	SHARED DISPOSITIVE POWER	
		359,847	
9.	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
359,847			
10.	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	0.76%		
12.	TYPE OF REPORTING	G PERSON*	
	PN		

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Partners, L.P.		
2.	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		1 274 007	
EACH	7.	1,364,997 SOLE DISPOSITIVE POWER	
REPORTING PERSON	/.	SOLL DISTOSTITY LTO WEIK	
WITH		0	
	8.	SHARED DISPOSITIVE POWER	
		1,364,997	
9.	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,364,997		
10.	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	2.87%		
12.	TYPE OF REPORTING	FPERSON*	
	PN		

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield International N	Master Fund. L.P.	
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		(a) [ (b) [2
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	CE OF ORGANIZATION	
	British Virgin Islands		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		744,736	
EACH REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON		0	
WITH	8.	SHARED DISPOSITIVE POWER	
9.	ACCRECATE AMOUN	744,736 VT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9.	AGGREGATE AMOUT	NI BENEFICIALLI OWNED BI EACH REFORTING FERSON	
	744,736		
10.	CHECK BOX IF THE A	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	[
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	1.57%		
12.	TYPE OF REPORTING	PERSON*	
	PN		

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	James E. Flynn		
2.	CHECK THE APPROF	PRIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	United States		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		2,469,580 (3)	
EACH REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON		0	
WITH	8.	SHARED DISPOSITIVE POWER	
9.	AGGREGATE AMOU	2,469,580 (3) NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
<i>7.</i>		WI BENEFICIALED OWNED BY ENGINEER ON THOU PERSON	
10.	2,469,580 (3)		Г
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		L
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
5.20%			
12.	TYPE OF REPORTING	G PERSON*	
	IN		

(3) Comprised of shares of common stock held by Deerfield Partners, L.P. and Deerfield International Master Fund, L.P.

CUSIP No.	039697107	13G	Page 8 of 11 Pages			
Item 1(a).	Name of Issuer:					
	Ardelyx, Inc.					
Item 1(b).	Address of Issuer's Prin	ncipal Executive Offices:				
	34175 Ardenwood Bou Fremont, CA 94555	ılevard, Suite 200				
Item 2(a).	(a). Name of Person Filing:					
	James E. Flynn, Deerfi and Deerfield Internation	eld Mgmt, L.P., Deerfield Management Company, L.P., Deerfield Special Situat onal Master Fund, L.P.	tions Fund, L.P., Deerfield Partners, L.P.			
Item 2(b).	Address of Principal B	usiness Office, or if None, Residence:				
		eld Mgmt, L.P., Deerfield Management Company, L.P., Deerfield Special Situat onal Master Fund, L.P., 780 Third Avenue, 37th Floor, New York, NY 10017	tions Fund, L.P., Deerfield Partners, L.P.,			
Item 2(c).	(c). Citizenship:					
	Deerfield Mgmt, L.P., Deerfield Management Company, L.P., Deerfield Special Situations Fund, L.P., and Deerfield Partners, L.P Delaware limited partnerships;					
	Deerfield International Master Fund, L.P British Virgin Islands limited partnership;					
	James E. Flynn – Unite	ed States citizen				
Item 2(d).	Title of Class of Securi	ties:				
	Common Stock					
Item 2(e).	CUSIP Number:					
	039697107					
Item 3.	If This Statement is Fil	ed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Fili	ing is a:			
(a)	☐ Broker or dealer	registered under Section 15 of the Exchange Act.				
(b)	☐ Bank as defined	in Section 3(a)(6) of the Exchange Act.				
(c)	☐ Insurance compa	any as defined in Section 3(a)(19) of the Exchange Act.				
(d)	☐ Investment comp	pany registered under Section 8 of the Investment Company Act.				
(e)	☐ An investment a	dviser in accordance with Rule 13d-1(b)(1)(ii)(E);				
(f)	☐ An employee bea	nefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);				
(g)	☐ A parent holding	g company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);				
(h)	☐ A savings associ	ation as defined in Section 3(b) of the Federal Deposit Insurance Act;				
(i)	☐ A church plan th	at is excluded from the definition of an investment company under Section 3(c)	0(14) of the Investment Company Act;			

(iii) Sole power to dispose or to direct the disposition of:

## All Reporting Persons - 0

(iv) Shared power to dispose or to direct the disposition of:

Deerfield Mgmt, L.P. - 2,469,580 Deerfield Management Company, L.P. - 2,469,580

Deerfield Special Situations Fund, L.P. - 359,847 shares

Deerfield Partners, L.P. – 1,364,997

Deerfield International Master Fund, L.P. - 744,736

James E. Flynn – 2,469,580

<sup>\*\*</sup>See footnotes on cover pages which are incorporated by reference herein.

## Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities check the following  $\boxtimes$ .

#### Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than five percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

N/A

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

If a parent holding company or Control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

N/A

Item 8. Identification and Classification of Members of the Group.

If a group has filed this schedule pursuant to ss.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to ss.240.13d-1(c) or ss.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Exhibit B

Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

N/A

Item 10. Certifications.

"By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under §240.14a–11."

## **SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

## DEERFIELD MGMT, L.P.

By: J.E. Flynn Capital, LLC, General Partner

## By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

## DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

## By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

## DEERFIELD SPECIAL SITUATIONS FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

## By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

## DEERFIELD PARTNERS, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

## By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

## DEERFIELD INTERNATIONAL MASTER FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

## By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

## /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

Date: February 14, 2018

## Exhibit List

Exhibit A. Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C. Power of Attorney (1).

(1) Power of Attorney previously filed as Exhibit 24 to a Form 3 with regard to Proteon Therapeutics, Inc. filed with the Securities and Exchange Commission on August 4, 2017 by Deerfield Special Situations Fund, L.P., Deerfield Partners, L.P., Deerfield International Master Fund, L.P., Deerfield Private Design Fund III, L.P., Deerfield Private Design Fund IV, L.P., Deerfield Mgmt, L.P., Deerfield Mgmt III, L.P., Deerfield Mgmt IV, L.P., Deerfield Management Company, L.P., and James E. Flynn.

#### Exhibit A

## Joint Filing Agreement

The undersigned agree that this Schedule 13G, and all amendments thereto, relating to the Common Stock of Ardelyx, Inc. shall be filed on behalf of the undersigned.

DEERFIELD MGMT, L.P.

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD INTERNATIONAL MASTER FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

By: <u>/s/ Jonathan Isler</u>

Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

## Exhibit B

Due to the relationships between them, the reporting persons hereunder may	be deemed to constitute a "grou	p" with one another for purposes of
Section 13(d)(3) of the Securities Exchange Act of 1934.		