## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

<b>SCHED</b>	III.E.	13G
	ULL	TOO

Under the Securities Exchange Act of 1934 (Amendment No. )\*

## KalVista Pharmaceuticals, Inc.

(Name of Issuer)

Common Stock, par value \$0.001 per share (Title of Class of Securities)

483497103 (CUSIP Number)

October 6, 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)

\* 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.

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 ("Act") 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).

CUSI	P No. 4834	971	03
1.	1. Names of Reporting Persons		
	Merck		
2.	Check th (a) □		propriate Box if a Member of a Group (See Instructions) ) □
	(a) 🗆	(0	,
3.	. SEC Use Only		
4.	4. Citizenship or Place of Organization		r Place of Organization
	New Jersey		
		5.	Sole Voting Power
	ımber of	6.	0 shares Shared Voting Power
	shares neficially	0.	Shared voling Power
	wned by		1,070,589 shares
	each	7.	Sole Dispositive Power
	porting		
	person with		0 shares
	With	8.	Shared Dispositive Power
			1,070,589 shares
9.	Aggrega	te A	mount Beneficially Owned by Each Reporting Person
	1 070 5	00.	
10.	1,070,5		Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) $\Box$
10.	Check II	uie i	Aggregate Amount in Now (3) Excludes Certain Shares (See instructions)
11.	Percent o	of Cl	ass Represented by Amount in Row (9)
	9.9%*		
12.	Type of I	Repo	orting Person (See Instructions)
	НС		

<sup>\*</sup> Based on 10,783,631 shares of Common Stock outstanding as of October 6, 2017, according to information received from the Issuer.

CUSII	P No. 4834	1971	03
1.	1. Names of Reporting Persons		
	Merck Sharp & Dohme Corp.		
2.			propriate Box if a Member of a Group (See Instructions)
	(a) 🗆	(b	
3.	SEC Use Only		
4.	Citizensl	nip o	r Place of Organization
	New Jersey		
		5.	Sole Voting Power
Ni	ımber of		0 shares
shares		6.	Shared Voting Power
	neficially wned by		1,070,589 shares
	each	7.	Sole Dispositive Power
	eporting person		0 shares
	with	8.	Shared Dispositive Power
			1,070,589 shares
9.	9. Aggregate Amount Beneficially Owned by Each Reporting Person		
	1,070,5		
10.	Check if	the .	Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) □
11.	Percent o	of Cl	ass Represented by Amount in Row (9)
	9.9%*		
12.	Type of 1	Repo	orting Person (See Instructions)

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<sup>\*</sup> Based on 10,783,631 shares of Common Stock outstanding as of October 6, 2017, according to information received from the Issuer.

Item 1.	(a)	Name of Issuer: KalVista Pharmaceuticals, Inc.
	(b)	Address of Issuer's Principal Executive Offices:  55 Cambridge Parkway, 9th floor Cambridge, MA 02142
Item 2.	(a)	Name of Person Filing: (1) Merck & Co., Inc. (2) Merck Sharp & Dohme Corp.
	(b)	Address of Principal Business Office or, if none, Residence: (1) Merck & Co., Inc.: 2000 Galloping Hill Road, Kenilworth, NJ 07033 (2) Merck Sharp & Dohme Corp.: One Merck Drive, Whitehouse Station, NJ 08889
	(c)	Citizenship: (1) Merck & Co., Inc.: New Jersey (2) Merck Sharp & Dohme Corp.: New Jersey
	(d)	Title of Class of Securities: Common Stock, par value \$0.001 per share
	(e)	CUSIP Number: 483497103
Item 3.	If t	his statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:
	(a)	☐ Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);
	(b)	☐ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
	(c)	$\square$ Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
	(d)	☐ Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
	(e)	☐ An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
	(f)	☐ An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
	(g)	☐ A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
	(h)	☐ A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
	(i)	□ A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
	(j)	$\square$ A non-U.S. institution in accordance with § 240.13d–1(b)(1)(ii)(J);
	(k)	☐ Group, in accordance with § 240.13d–1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with § 240.13d–1(b)(1)(ii)(J), please specify the type of institution:

Item 4.	Ow	nersl	hip	
Provide th	e fol	lowir	ng information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.	
	(a)	Amo	ount beneficially owned: 1,070,589	
	The reported securities are owned directly by Merck Sharp & Dohme Corp. ("MSD"), which is a wholly owned subsidiary of Merck & Inc. ("Merck"). Merck is an indirect beneficial owner of the reported securities.			
	(b)	Percent of class: 9.9%		
	(c)	Nun	nber of shares as to which the person has:	
		(i)	Sole power to vote or to direct the vote: See Cover Pages Items 5-8.	
		(ii)	Shared power to vote or to direct the vote: See Cover Pages Items 5-8.	
		(iii)	Sole power to dispose or to direct the disposition of: See Cover Pages Items 5-8.	
		(iv)	Shared power to dispose or to direct the disposition of: See Cover Pages Items 5-8.	
Item 5.	0	wner	ship of Five Percent or Less of a Class	
			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 rities, check the following. $\Box$	
Item 6.	0	wner	ship of More than Five Percent on Behalf of Another Person	
Not applic			omp of 1/2010 than 1170 I erectic on Behan of 1 mother 1 eroon	
Item 7.			ication and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or of Person	
The report securities.		ecurit	ties are owned directly by MSD, which is a wholly owned subsidiary of Merck. Merck is an indirect beneficial owner of the reported	
Item 8.	Id	lentif	ication and Classification of Members of the Group	
Not applic			r and the same of	
Item 9.			of Dissolution of Group	
Not applic	abie	•		
Item 10.	C	ertifi	cations	
acquired a	nd a	re no	ach of the undersigned certifies that, to the best of each such signatory's knowledge and belief, the securities referred to above were not the 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 ection with or as a participant in any transaction having that purpose or effect.	
			Signatures	
			quiry and to the best of the knowledge and belief of each of the undersigned, each of the undersigned certifies that the information set forture, complete and correct.	
October 1	6, 20	17		
			MERCK & CO., INC.	
			/s/ Katie Fedosz	
			Signature	
			Senior Assistant Secretary	
			Name/Title	
			MERCK SHARP & DOHME CORP.	

/s/ Katie Fedosz

Signature

Assistant Secretary

Name/Title

Attention: Intentional misstatements or omissions of fact constitute federal criminal violations (see 18 U.S.C. 1001).

## EXHIBIT INDEX

Exhibit No. Description

99.1 Joint Filing Agreement

## JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the persons named below agrees to the joint filing of a Statement on Schedule 13G (including amendments thereto) with respect to the common stock, \$0.001 par value per share, of KalVista Pharmaceuticals, Inc., a Delaware corporation, and further agrees that this Joint Filing Agreement be included as an exhibit to such filings provided that, as contemplated by Section 13d-1(k)(1)(ii), no person shall be responsible for the completeness or accuracy of the information concerning the other persons making this filing, unless such person knows or has reason to believe that such information is in accurate. This Joint Filing Agreement may be executed in any number of counterparts, all of which together shall constitute one and the same instrument.

October 16, 2017

MERCK & CO., INC.
/s/ Katie Fedosz
Signature
Senior Assistant Secretary
Name/Title
MERCK SHARP & DOHME CORP.
/s/ Katie Fedosz
Signature
Assistant Secretary
Name/Title