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18 UNITED STATES DISTRICT COURT

19 NORTHERN DISTRICT OF CALIFORNIA

20
21
22 IN RE TESLA, INC. SECURITIES
LITIGATION

Case No. 3:18-cv-04865-EMC

23 **MOTION IN LIMINE NO. 2**

24 **DEFENDANTS' MOTION IN LIMINE TO**
25 **EXCLUDE THE OPINIONS OF**
26 **MICHAEL HARTZMARK**

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INTRODUCTION

1
2 The Court should exclude the unreliable expert opinion of Dr. Michael Hartzmark, Plaintiff's loss
3 causation and damages expert, on which Plaintiff bases a claim for damages-per-share of three times the
4 August 7 stock-price increase. Dr. Hartzmark fails to separate any inflation caused by the alleged
5 misstatements from accurate statements, neglects to account for the effect of information unrelated to the
6 alleged misstatements, and wrongly includes consequential damages invented out of thin air. Dr.
7 Hartzmark's damages model is unreliable, and thus his opinion should be excluded.

8 A reliable damages and loss causation model must (a) isolate the inflation (price increase)
9 attributable to the alleged material misrepresentations, (b) identify corrective disclosures resulting in
10 statistically significant declines in the stock price, and (c) disaggregate confounding information, that is,
11 information unrelated to the alleged misrepresentations that could have affected the stock price. Dr.
12 Hartzmark's model does none of that. Specifically, his model does not distinguish between stock price
13 increases caused by the undeniably truthful information in Mr. Musk's tweets and allegedly inaccurate
14 information in those tweets. Nor does his model isolate losses due only to statistically significant declines
15 resulting from corrective disclosures. While Dr. Hartzmark purports to apply a novel "leakage" theory to
16 assume that *all* of the price declines through August 17 were caused by an amalgam of "curative"
17 information and "consequential effects," in doing so he assumes the very loss causation on which he is
18 supposed to opine. And, in any event, such an assumption sweeps so broadly as to include "curative"
19 disclosures regarding an alleged "misstatement" that Plaintiff has since abandoned, as well as declines
20 wholly unrelated to the alleged misstatements. The end result is an overly-simplistic model in which Dr.
21 Hartzmark takes the total price declines and merely backfills inflation and damages. Given these
22 foundational flaws in Dr. Hartzmark's model, the Court should exclude his testimony, or alternatively,
23 hold a Rule 104 hearing prior to trial to consider its admissibility.

FACTUAL BACKGROUND

24
25 Plaintiff has proffered Dr. Hartzmark as an expert on loss causation and damages. In his report,
26 Dr. Hartzmark begins his analysis by calculating the amount of purported "artificial inflation" that was
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28

1 “caused” by Mr. Musk’s tweets on August 7. (Ex. 375 ¶¶ 64, 66, 77, 177.)¹ To do so, Dr. Hartzmark
2 conducted an event study that removed the impact of “market” and “industry” effects to create “predicted”
3 results for Tesla’s stock during the Class Period. (*Id.*) Although Plaintiff does not dispute that certain
4 portions of Mr. Musk’s August 7 tweets were true, Dr. Hartzmark assumes that 100% of the difference
5 between the “predicted return” and the actual Tesla return the “abnormal return” or “residual” on August
6 7 following the tweets constituted “direct artificial inflation.” (Ex. 375 ¶ 77.) Dr. Hartzmark does not
7 attempt to isolate the stock increase due to Mr. Musk’s indisputably true statements as opposed to his
8 allegedly materially false ones. (Ex. B at 205:12-21; 226:10-229:8; 229:18-231:4.) Based on Dr.
9 Hartzmark’s assumption, he calculates \$23.27 of inflation directly caused by Mr. Musk’s tweets on August
10 7. (Ex. 375 ¶ 77.)

11 Dr. Hartzmark also purports to calculate the subsequent declines supposedly “caused” by the
12 revelation of the alleged fraud. To accomplish this, Dr. Hartzmark created an event study to measure
13 Tesla’s residual returns on each day of the “corrective interval” (*i.e.*, the period when the purported falsity
14 of Mr. Musk’s tweets was “revealed” to the market). (Ex. 375 ¶ 66.) In doing so, Dr. Hartzmark does not
15 identify a single day with a statistically significant decline at the 5% level—the generally accepted level
16 required to show causation. As a result, he turns to a “leakage model,” but assumes that the information
17 regarding the inaccuracy of the August 7 statements caused the entirety of the actual price movement on
18 each day in the “corrective interval” without excluding any information unrelated to the alleged
19 misstatements that could have caused a change in stock price (that is, confounding information). For
20 example, while the stock market absorbed new information concerning SEC investigations unrelated to
21 Mr. Musk’s tweets and concerns regarding Mr. Musk’s health during the relevant timeframe, Dr.
22 Hartzmark has not excluded any price change related to such information from his model. (Ex. 375 ¶¶ 65,
23 150; Ex. B 76:4-77:21.) Based on his assumption that information regarding the accuracy of the August
24 7 tweets caused all price movement during the class period, Dr. Hartzmark reaches the conclusion that
25 Mr. Musk’s tweets caused \$66.67 in damages, nearly three times the amount of direct artificial inflation
26 Dr. Hartzmark measured on August 7 as a result of Mr. Musk’s tweets. (Ex. 375 ¶ 171.)

27
28 ¹ Deposition exhibits are marked with numbers (*e.g.*, 1-500); new exhibits in support of this motion are
marked with letters (*e.g.*, A-Z). All cited exhibits are to the Batter Declaration.

1 Dr. Hartzmark attributes the difference between the \$23.27 per share of inflation and the \$66.67
 2 per share damages figure to “consequential effects,” such as shareholder lawsuits and negative news
 3 articles. (Ex. 375 ¶¶ 54, 171.) In an attempt to divide these damages between damages due to the “direct
 4 effects” and the “consequential effects,” Dr. Hartzmark uses stock volatility of long-term options as a
 5 proxy for the direct effects and categorizes the remainder as “consequential.” (Ex. 375 ¶¶ 191-204.)

6 ARGUMENT

7 **I. DR. HARTZMARK’S OPINION SHOULD BE EXCLUDED BECAUSE HE EMPLOYS** 8 **AN UNRELIABLE METHODOLOGY**

9 To prove loss causation, a plaintiff must show the price of the securities was “inflated”—that is, it
 10 was higher than it would have been without the false statements—and that it declined once the truth was
 11 revealed. *See Dura Pharm., Inc. v. Broudo*, 544 U.S. 336, 342-45 (2005). The aim of the securities laws
 12 is “not to provide investors with broad insurance against market losses, but to protect them against those
 13 economic losses that misrepresentations actually cause.” *Id.* at 345. Thus, “a plaintiff must show that an
 14 economic loss occurred after the truth behind the misrepresentation or omission became known to the
 15 market.” *In re REMEC Inc. Sec. Litig.*, 702 F. Supp. 2d 1202, 1266 (S.D. Cal. 2010). For a stock decline
 16 to constitute the required “economic loss,” “the decline in stock price [must be] caused by the revelation
 17 of that truth [and it] must be statistically significant.” *Id.*

18 To show a decline caused by the revelation of the truth, an expert must reliably “separate the loss
 19 caused by the disclosure of corrective information . . . from loss caused by the disclosure of other
 20 company-specific information.” *Id.* at 1273-74. Thus, where an expert’s model does not disaggregate
 21 between the loss caused by the disclosure of corrective information and the loss caused by other truthful
 22 company-specific or market information (*i.e.*, confounding information), the expert’s model is unreliable
 23 and cannot be presented to a jury. *Id.* at 1275; *see also In re Omnicom Grp., Inc. Sec. Litig.*, 541 F. Supp.
 24 2d 546, 554 (S.D.N.Y. 2008) (granting summary judgment to defendant where plaintiffs’ expert’s failure
 25 to disaggregate all confounding factors left “no way for a juror to determine whether the alleged fraud
 26 caused any portion of Plaintiffs’ loss”), *aff’d*, 597 F.3d 501 (2d Cir. 2010); *In re Sci. Atlanta, Inc. Sec.*
 27 *Litig.*, 754 F. Supp. 2d 1339, 1379 (N.D. Ga. 2010) (expert’s “failure to disentangle the effect of the new
 28 [fraudulent] information” from the confounding “negative characterization” of truthful non-fraudulent

1 news did not enable jury to “determine how much, if any, of Plaintiffs’ loss is attributable to Defendants”
 2 misrepresentations), *aff’d*, 489 F. App’x 339 (11th Cir. 2012).

3 **A. Dr. Hartzmark Fails To Separate Any Loss Caused By Corrective Information**
 4 **From Disclosure Of Other Company-Specific Information.**

5 Dr. Hartzmark’s damages analysis is flawed from the start because he does not isolate the impact
 6 of the allegedly false statements from the other company-specific information. This failure alone warrants
 7 exclusion under Federal Rule of Evidence 702. *See REMEC*, 702 F. Supp 2d at 1273-75.

8 **True Statements.** To start, Dr. Hartzmark fails to account for the impact of Mr. Musk’s undeniably
 9 true statements. Specifically, Dr. Hartzmark admits he did nothing to isolate how much of the purported
 10 inflation he calculated on August 7, 2018 was due to Mr. Musk’s undeniably true statement that he was
 11 “considering taking Tesla private at \$420” from the allegedly false statement “funding secured.” (Ex. B
 12 at 205:12-21; 226:10-229:8; 229:18-231:4.) Thus, Dr. Hartzmark’s analysis “provides no method by
 13 which a jury can determine how much, if any, of Plaintiffs’ loss is attributable to” Mr. Musk’s truthful
 14 statement versus his allegedly untruthful statement. *In re Sci. Atlanta*, 754 F. Supp. 2d at 1379.²

15 Similarly, Dr. Hartzmark measures an increase in “Direct Artificial Inflation” on August 14, which
 16 he attributes to the “fairly straightforward” explanation that Mr. Musk’s August 13 tweet that he was
 17 “excited to work with Silver Lake and Goldman Sachs as financial advisers” increased the deal probability
 18 and, in turn, the “Direct Artificial Inflation.” (Ex. B at 214:6-215:3.) But Plaintiff abandoned this alleged
 19 misstatement because, like Mr. Musk’s statement that he was “considering taking Tesla private,” Mr.
 20 Musk’s August 13 tweet was undeniably true. (Ex. 431 (Plaintiff’s Interrogatory Responses) at 5-6.) In
 21 other words, not only does Dr. Hartzmark fail to isolate the impact of certain of Mr. Musk’s truthful
 22 statements, he attributes inflation to a tweet Plaintiff admits contains no false information.

23 **Other Causes Of Stock Price Movement.** Dr. Hartzmark’s model also is unreliable because it fails
 24 to address other potential causes of stock movement. Rather than running an event study that identifies
 25 and isolates statistically significant declines due to the revelation of the purported misstatements, Dr.

26 _____
 27 ² Dr. Hartzmark offers no analysis to dispute that the truthful sentence caused some stock increase, which
 28 caused Professor Fischel to criticize the model as “fundamentally flawed from the outset because he makes
 no attempt to isolate the effect of the allegedly misleading information from the uncontested true
 statement.” (Ex. 423 ¶¶ 9-14.)

1 Hartzmark simply assumes that 100% of what he deems Tesla’s residual in his event study on each day
2 of the “corrective interval” is due to the alleged fraud as opposed to confounding information or random
3 noise. (Ex. 375 ¶ 65; Ex. C 76:3-77:21.) This alone requires exclusion of Dr. Hartzmark’s opinion.
4 *REMEC*, 702 F. Supp. 2d. at 1273-75; *see infra* at 8. But then, based on this sweeping assumption, Dr.
5 Hartzmark reaches the conclusion that Mr. Musk’s tweets caused \$66.67 in damages despite
6 simultaneously finding they only directly caused \$23.27 in damages, denoting the remainder
7 “consequential results” of the direct harm. (Ex. 375 ¶ 171.) The end result demonstrates the unreliability
8 of his methodology. Dr. Hartzmark calculates that, “but for” Defendants’ allegedly wrongful conduct,
9 Tesla’s stock price would have been \$43.95 *below* the \$356.85 price one minute before the tweets existed.
10 (Ex. 375 ¶ 175.) As a result, his model does not even try to measure the relevant question: what the stock
11 price would have been had Mr. Musk disclosed on August 7 what Plaintiff contends is the truth about a
12 contemplated take-private transaction. *See Goldman Sachs Grp., Inc. v. Ark. Tchr. Ret. Sys.*, 141 S. Ct.
13 1951, 1961 (2021) (“[P]rice impact is the amount of price inflation maintained by an alleged
14 misrepresentation—in other words, the amount that the stock’s price would have fallen without the false
15 statement.”) (quotations omitted).

16 Accordingly, Dr. Hartzmark’s analysis is unreliable and must be excluded. *REMEC*, 702 F. Supp.
17 2d at 1273-75 (excluding damages expert who failed to disaggregate between inflation caused by
18 misrepresentation as opposed to other information); *Omnicom*, 541 F. Supp. 2d at 554 (granting summary
19 judgment where plaintiffs’ expert only disaggregated some of the evidence).

20 **B. Dr. Hartzmark’s Leakage Model Is Unprecedented And Unreliable.**

21 Even setting aside these foundational flaws, Dr. Hartzmark’s model fails to connect the asserted
22 economic loss to a curative disclosure or to the leakage of such information over the Class Period.

23 The traditional methodology for calculating loss causation and damages requires statistically
24 significant stock reactions following specific corrective disclosures. *REMEC*, 702 F. Supp. 2d at 1266.
25 A decline must be statistically significant because a certain level of randomness is expected in stock price
26 movements. *Ark. Tchrs. Ret. Sys. v. Goldman Sachs Grp., Inc.*, 879 F.3d 474, 481 n.5 (2d Cir. 2018). A
27 stock decline that is not statistically significant “is indistinguishable from random price fluctuations.” *Id.*
28 Thus, when a decline is not statistically significant, it “cannot be attributed to company-specific

1 information announced on the event date.” *Id.* The level of statistical significance generally required to
2 attribute a stock-price movement to specific information rather than random fluctuations is the 5% level
3 (also known as the 95% confidence level), as Dr. Hartzmark acknowledges. *See* Ex. B 111:17-23.

4 Here, Dr. Hartzmark does not identify a single disclosure that contained new material information
5 about the alleged misstatements and resulted in a statistically significant decline. Thus, under the
6 traditional methodology, all of the “corrective” days’ returns (other than August 17, which contained no
7 curative information, as discussed *infra*, at 8) are indistinguishable from random price fluctuations that
8 cannot ground damages. Likely because of this, Dr. Hartzmark abandons this methodology in favor of a
9 “leakage model” that rests on the premise that, although there were no individual statistically significant
10 declines, the truth leaked out gradually over the Class Period. But Dr. Hartzmark’s leakage model must
11 be excluded not only for the reasons above but also because his justification for deviating from the
12 traditional methodology is baseless and his leakage model is inherently unreliable.

13 As an initial matter, no case in the Ninth Circuit has endorsed a leakage theory that attributes every
14 penny of decline to the alleged fraud. *See, e.g., Nuveen Mun. High Income Opportunity Fund v. City of*
15 *Alameda, Cal.*, 730 F.3d 1111, 1123 (9th Cir. 2013) (rejecting leakage model attributing nearly all declines
16 to fraud). Indeed, certain courts have explicitly rejected the theory as not having “achieved ‘general
17 acceptance’ within the relevant scientific community or ‘been subjected to peer review and publication.’”
18 *In re the Bear Stearns Companies, Inc. Sec.*, 2016 WL 4098385, at *9 (S.D.N.Y. July 25, 2016) (quoting
19 *Daubert v. Merrell Dow Pharm., Inc.*, 509 U.S. 579, 593-94 (1993)).

20 Even if acceptable in theory, “[a] plaintiff cannot simply state that the market had learned the truth
21 by a certain date and, because the learning was a gradual process, attribute all prior losses to the revelation
22 of the fraud.” *Williams Sec. Litig.-WCG Subclass*, 558 F.3d 1130, 1138 (10th Cir. 2009). That is
23 particularly true here, where Dr. Hartzmark claims damages three times the initial inflation (*see* Ex. B
24 76:3-77:21), and only one statistically significant decline on a day without any curative information, *see*
25 Defendants’ Motion *In Limine* No. 1 at 6-8.³

26 *First*, Dr. Hartzmark does not disaggregate confounding information. As described, *supra*, at 4-5,
27

28 ³ This alone distinguishes Dr. Hartzmark’s model from Professor Fischel’s model in *Glickenhau & Co.*
v. Household Int’l, Inc., 787 F.3d 408, 422 (7th Cir. 2015).

1 Dr. Hartzmark fails to isolate between declines due to the purported revelation that Mr. Musk’s “funding
2 secured” statement was allegedly untrue or other company-specific information. During the meet-and-
3 confer process, Plaintiff indicated he would try to shift his burden to Defendants. (*See* Ex. C.) But even
4 the case on which Plaintiff intends to rely confirms a plaintiff must show in “nonconclusory terms” that
5 “no firm-specific, nonfraud related information contributed to the decline in stock price during the relevant
6 time period.” *Glickenhous & Co. v. Household Int’l, Inc.*, 787 F.3d 408, 422 (7th Cir. 2015). Dr.
7 Hartzmark makes no effort to eliminate any contribution from “firm-specific, nonfraud related
8 information.” For example, in treating the August 16 New York Times article as a corrective disclosure
9 (assuming it could qualify as one), Dr. Hartzmark fails to isolate the impact on the stock price of nonfraud
10 related information in that article, including news regarding Mr. Musk’s emotional and physical health
11 that Dr. Hartzmark’s own sources connected to a decline in Tesla’s stock. (Ex. 375 ¶ 128; Ex. B 268:8-
12 269:25.) While Dr. Hartzmark opines that “the beginning of the revelation of the truth” was a New York
13 Times article at 10:24 a.m., he inexplicably includes declines that occurred *prior* to the 10:24 a.m. article
14 that, under his own theory, must have been caused by something else. (Ex. 375 ¶¶ 82, 88 & n.160.) And
15 Dr. Hartzmark does not disaggregate the effect of a Wall Street Journal report—published the same day
16 as the New York Times article—regarding the SEC’s subpoena to a Tesla parts supplier in an investigation
17 into whether Tesla had misrepresented Model 3 production issues. (Ex. 375 ¶ 165.) Dr. Hartzmark makes
18 a conclusory attempt to brush this aside by pointing to an August 9, 2018 disclosure that the SEC “had
19 been gathering information about Tesla’s public pronouncements regarding manufacturing goals and sales
20 targets,” but he did not disaggregate that news during the “corrective interval” either. (Ex. 375 ¶¶ 91, 166
21 & n.269; Ex. B 242:10-244:25.)

22 Indeed, in a feat of inconsistency, Dr. Hartzmark claims the issuance of a subpoena *is* new material
23 information with respect to the already-disclosed SEC investigation into the tweets but not new material
24 information with respect to the Model 3 production investigation. (*Compare* Ex. 375 ¶¶ 115-120 *with*
25 *id.* ¶¶ 165-166.) Because Dr. Hartzmark’s does not disaggregate between “the loss caused by the
26 disclosure of corrective information . . . from loss caused by the disclosure of other company-specific
27 information,” his model is unreliable. *REMEC*, 702 F. Supp. at 1273-75; *Omnicom*, 541 F. Supp. 2d at
28 554 (“[T]here is simply no way for a juror to determine whether the alleged fraud caused any portion of

1 Plaintiffs’ loss” where expert failed to disaggregate all confounding factors.).

2 *Second*, Dr. Hartzmark’s selection of an inappropriate “corrective interval” that runs through
 3 August 17, 2018 distinguishes his model from any theoretically appropriate leakage model. Dr. Hartzmark
 4 identifies no new corrective information on August 17 (or any time after August 13), and Plaintiff offered
 5 nothing further during the meet-and-confer process. (*See Ex. C.*) As explained in Defendants’ motion *in*
 6 *limine* No. 1, the New York Times article to which Dr. Hartzmark attributes the August 17 decline must
 7 be excluded because it contained *no* new corrective information regarding the alleged fraud. Resting on
 8 the Complaint, Dr. Hartzmark asserts that the article revealed that the “Public Investment Fund ‘had not
 9 committed to provide any cash,’” that “funding for the proposed going private transaction ‘was far from
 10 secure,’” and that “no one had seen or reviewed Musk’s August 7, 2018 tweet before he posted it.” (*Ex.*
 11 *375* ¶ 125.) But none of this—largely editorialized opinion—was new. (*See MIL No. 1 at 6-9.*) Dr.
 12 Hartzmark’s leakage model should be excluded because it rests on an inappropriate corrective window.
 13 *See In re Intuitive Surgical Sec. Litig.*, 2016 WL 7425926, at *16 (N.D. Cal. Dec. 22, 2016) (rejecting at
 14 class certification stage claim based on disclosure that did not contain corrective information).

15 *Third*, absent the August 17 decline, Dr. Hartzmark’s leakage model does not satisfy the
 16 requirement of demonstrating a statistically significant decline at the 5% level. Dr. Hartzmark bases his
 17 assumption regarding the appropriateness of his “corrective interval,” in part, on the fact that the interval
 18 as a whole is statistically significant at the 5% level. (*Ex. 375* ¶ 65.) But the interval only reaches that
 19 level because of the decline on August 17. Dr. Hartzmark’s leakage model fails to identify statistically
 20 significant declines for any narrowed corrective window (*e.g.*, August 8 through August 16). (*Ex. 423* ¶
 21 30.) In other words, the aggregate stock decline under any appropriate window is indistinguishable from
 22 random price movements not caused by specific news and therefore unhelpful to the jury in assigning any
 23 decline to the alleged misstatements. *See REMEC*, 702 F. Supp. 2d at 1266; *In re Moody’s Corp. Sec.*
 24 *Litig.*, 274 F.R.D. 480, 493 n.11 (S.D.N.Y. 2011) (rejecting at class certification stage claim based on
 25 disclosure for which price decline did not meet the 95% confidence level as “not sufficient evidence of a
 26 link between the corrective disclosure and the price”).

27 **II. THE COURT SHOULD EXCLUDE IMPROPER CONSEQUENTIAL DAMAGES**

28 Dr. Hartzmark’s model also improperly includes “consequential effects” as “artificial inflation,”

1 which should be excluded. Specifically, although Dr. Hartzmark calculates \$23.27 in artificial inflation
 2 **directly** caused by Mr. Musk’s tweet, Dr. Hartzmark claims \$66.67 in total inflation by relying on his
 3 flawed “leakage model.” (Ex. 375 ¶ 171.) Rather than recognize that this discrepancy calls into question
 4 his model and its premise that the market had the necessary information only as of August 17 (Ex. 375 ¶
 5 4 n.9), he assumes the difference is explained by “consequential effects,” such as shareholder lawsuits.
 6 (Ex. 375 ¶¶ 54, 171.) But consequential damages are not permitted under the circumstances here.

7 In contrast to Dr. Hartzmark’s methodology, “courts have generally used an ‘out-of-pocket’
 8 measure of damages in securities fraud actions premised on a seller’s fraud.” *Chassin Holdings Corp. v.*
 9 *Formula VC Ltd.*, 2017 WL 66873, at *13 (N.D. Cal. Jan. 6, 2017) (Chen, J.). In other words, the proper
 10 measure of damages is the difference between what the buyer paid and what the buyer would have paid
 11 “had there been no fraudulent conduct.” *Affiliated Ute Citizens of Utah v. United States*, 406 U.S. 128,
 12 155 (1972). That is because investors are not entitled to recover if known risks materialize. *Sjunde AP-*
 13 *Fonden v. Goldman Sachs Grp., Inc.*, 545 F. Supp. 3d 120, 146 (S.D.N.Y. 2021) (event not a “corrective
 14 disclosure” where it is a “materialization of a known risk, rather than the disclosure of a concealed one”);
 15 *In re Nuveen Funds/City of Alameda Sec. Litig.*, 2011 WL 1842819, at *11 (N.D. Cal. May 16, 2011)
 16 (ruling materialization of risk cannot constitute a corrective disclosure event unless risk concealed at the
 17 time it materialized), *aff’d*, 730 F.3d 1111 (9th Cir. 2013). Thus, courts have rejected “consequential
 18 damages” linked to negative news coverage or subsequent lawsuits, the very sorts of events Dr. Hartzmark
 19 treats as consequential damages. *Tchrs’ Ret. Sys. Of LA v. Hunter*, 477 F.3d 162, 188 (4th Cir. 2007)
 20 (stock decline following lawsuit “is not one for which the plaintiffs in this case are entitled to
 21 compensation.”); *Omnicom*, 597 F.3d at 512 (similar for negative media coverage).⁴

22 Finally, even if consequential damages could be recoverable in this action, Dr. Hartzmark’s model
 23 is unreliable and therefore unhelpful to the jury in assigning any purported consequential damages. Once
 24 again, Dr. Hartzmark does not disaggregate between consequential effects due to Mr. Musk’s truthful
 25 statements and Mr. Musk’s allegedly false statements. *See supra*, at 4-5. Thus, the model is unhelpful to
 26

27 ⁴ In the rare case where consequential damages under Section 10(b) can be obtained, they “are defined
 28 as outlays attributable to the defendant’s wrongful conduct.” *Meyers v. Moody*, 693 F.2d 1196, 1212 (5th
 Cir. 1982); *Ambassador Hotel Co. v. Wei-Chuan Inv.*, 189 F.3d 1017, 1030 (9th Cir. 1999) (similar).

1 the jury in assigning any consequential damages due to the allegedly false statements.

2 In addition, however, Dr. Hartzmark's assumption produces absurd and contradictory results,
3 underscoring the unreliability of his model. Specifically, Dr. Hartzmark uses the volatility of Tesla stock
4 as a proxy for direct inflation and, therefore the market's expectation that Tesla would go private, and
5 attributes the remainder of the stock-price movement to "consequential effects." (Ex. 375 ¶¶ 191-204.)
6 But Dr. Hartzmark conducted no empirical analysis to support this assumption. In fact, this assumption
7 produces results in conflict with Plaintiff's own theory. For example, Dr. Hartzmark's reliance on the
8 changes in volatility leads him to find an *increase* in "Direct Artificial Inflation" on August 13. (Ex. 375
9 ¶ 204.) That means that, under Dr. Hartzmark's theory, the market believed a deal was *more likely* on
10 August 13 relative to the prior trading day (and, therefore, the market believed it more likely the August
11 7 tweets were accurate than it had before publication of the August 13 blog post). But August 13 is the
12 day that Plaintiff contended at summary judgment that Mr. Musk admitted funding was not secured. (Ex.
13 377 at 7.) Even Dr. Hartzmark opines that the August 13 blog post revealed to the market that Mr. Musk's
14 statement "funding secured" was "premature at best." (Ex. 375 ¶ 100.) Mr. Musk's blog post cannot have
15 both revealed that his tweets were false and simultaneously caused investors to believe those tweets more.

16 Likewise, using the framework of Dr. Hartzmark's model but changing the final corrective
17 disclosure to August 13 results in *negative* direct inflation on August 9 and August 10. Under such
18 circumstances, Dr. Hartzmark's model shows the inflation resulting from the alleged misstatements had
19 dissipated by August 9, even before the August 13 blog post. Instead of confronting this flaw in his
20 methodology, Dr. Hartzmark testified he would conveniently switch his model to characterize such
21 damages as direct, instead of consequential (Ex. B 231:25-232:24), despite opining that he observed such
22 consequential effects on August 8, 9, 10, and 13 (Ex. 375 ¶ 204). The fact that Dr. Hartzmark's purported
23 consequential effects simply vanish if the jury chooses a final corrective disclosure different than Dr.
24 Hartzmark's assumption shows that Dr. Hartzmark's model is no model at all, but rather a wholly
25 unreliable string of assumptions used to backfill damages.

26 CONCLUSION

27 Defendants respectfully request that the Court grant this motion to exclude the opinions of Dr.
28 Michael Hartzmark or, in the alternative, hold a Rule 104 hearing to determine their admissibility.

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Respectfully submitted,

QUINN EMANUEL URQUHART & SULLIVAN, LLP

DATED: June 16, 2022

By: /s/ Alex Spiro

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